

Geospace Model Evaluation to Support Model Transition to Operations. Phase I Report (V.20130831) Supplementary Material

Community Coordinated Modeling Center

Appendix A&B: Skill Scores for Individual Events

Figures A1-A6 show probability of Detection (POD) (blue curve) and Probability of False Detection (POFD) (black curve) for the dB/dt thresholds a) 0.3 nT/s, b) 0.7 nT/s, c) 1.1 nT/s and d) 1.5 nT/s for six individual events 1-6. In all figures the top panel shows POD and POFD obtained by integrating over the three mid-latitude stations and the bottom panel shows POD and POFD obtained by integrating over the three high-latitude stations. The models are ordered according to their POD. The model with the largest POD is the leftmost in all panels

Figures B1-B6 show Heidke Skill Score (HSS) for the dB/dt thresholds a) 0.3 nT/s, b) 0.7 nT/s, c) 1.1 nT/s and d) 1.5 nT/s for six individual events 1-6. In all panels the top panel shows HSS obtained by integrating over the three mid-latitude stations and the bottom panel shows HSS obtained by integrating over the three high-latitude stations. The models are ordered according to their HSS. The model with the largest HSS is the leftmost in all panels.

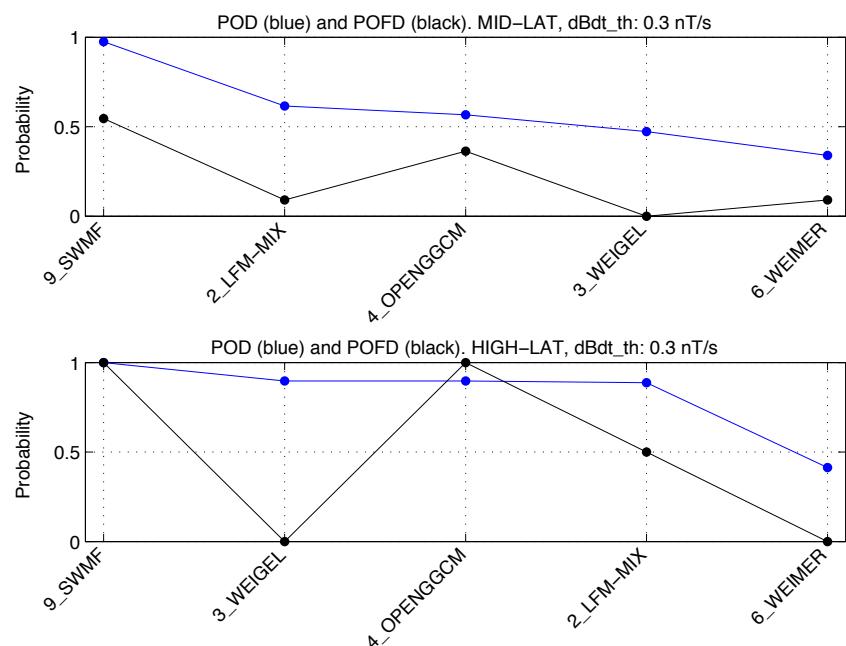


Figure A1a: Event 1: Probability of Detection (POD) (blue curve) and Probability of False Detection (POFD) (black curve) for the dB/dt threshold 0.3 nT/s.

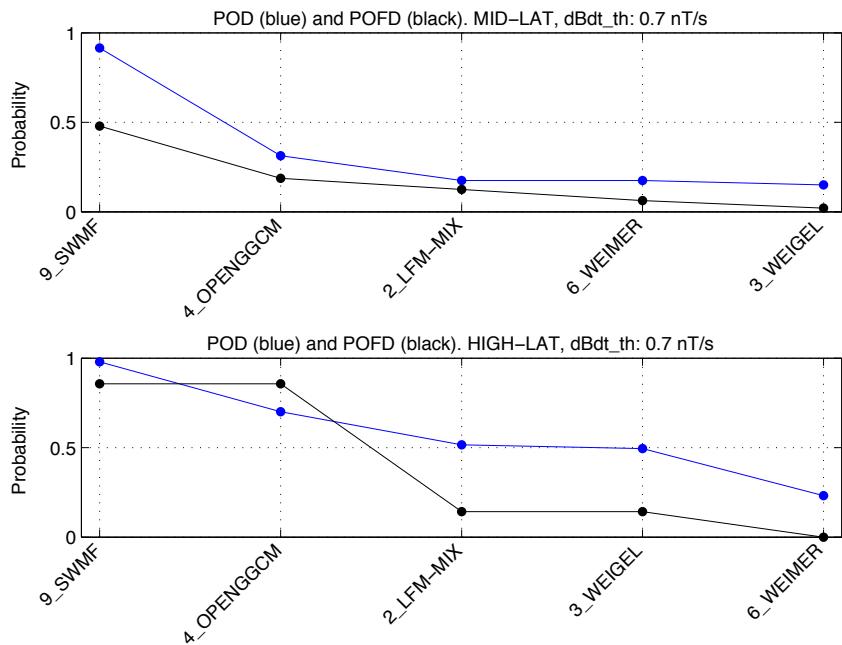


Figure A1b: Event 1: Probability of Detection (POD) (blue curve) and Probability of False Detection (POFD) (black curve) for the dB/dt threshold 0.7 nT/s.

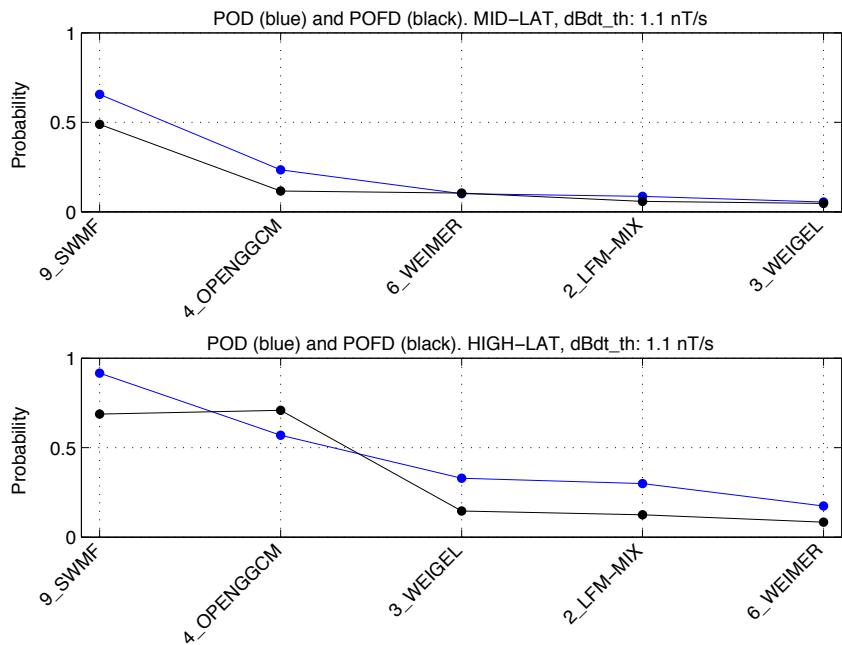


Figure A1c: Event 1: Probability of Detection (POD) (blue curve) and Probability of False Detection (POFD) (black curve) for the dB/dt threshold 1.1 nT/s.

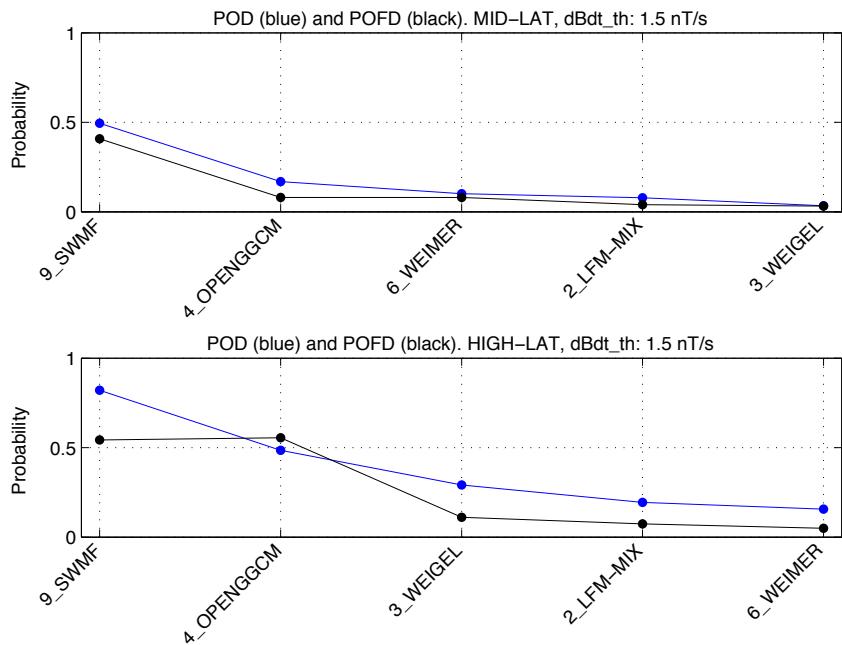


Figure A1d: Event 1: Probability of Detection (POD) (blue curve) and Probability of False Detection (POFD) (black curve) for the dB/dt threshold 1.5 nT/s.

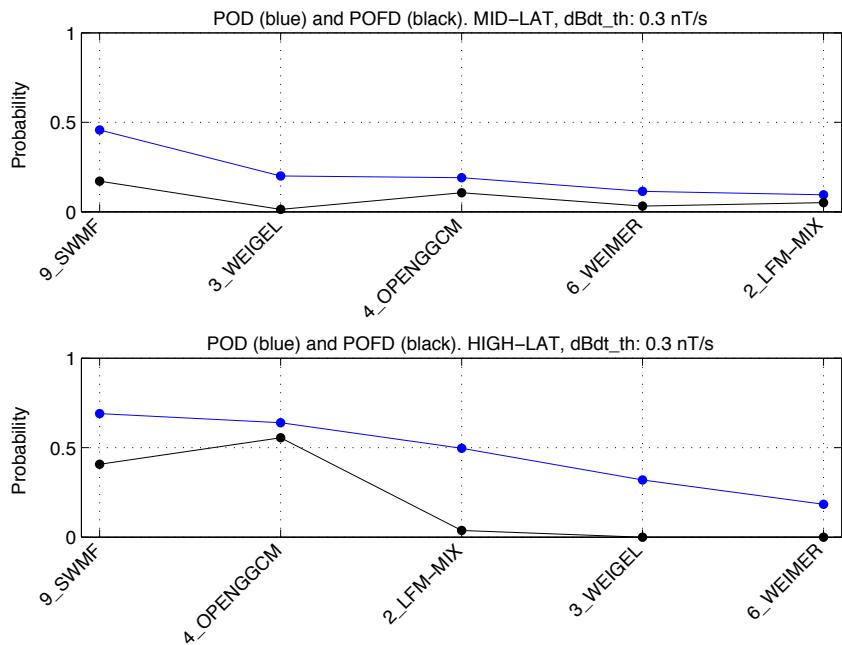


Figure A2a: Event 2: Probability of Detection (POD) (blue curve) and Probability of False Detection (POFD) (black curve) for the dB/dt threshold 0.3 nT/s.

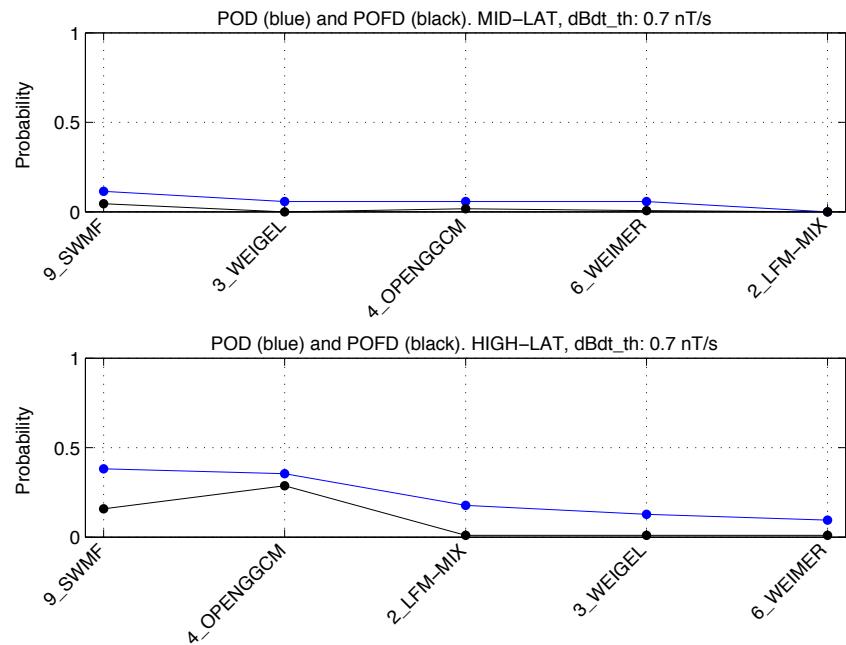


Figure A2b: Event 2: Probability of Detection (POD) (blue curve) and Probability of False Detection (POFD) (black curve) for the dB/dt threshold 0.7 nT/s.

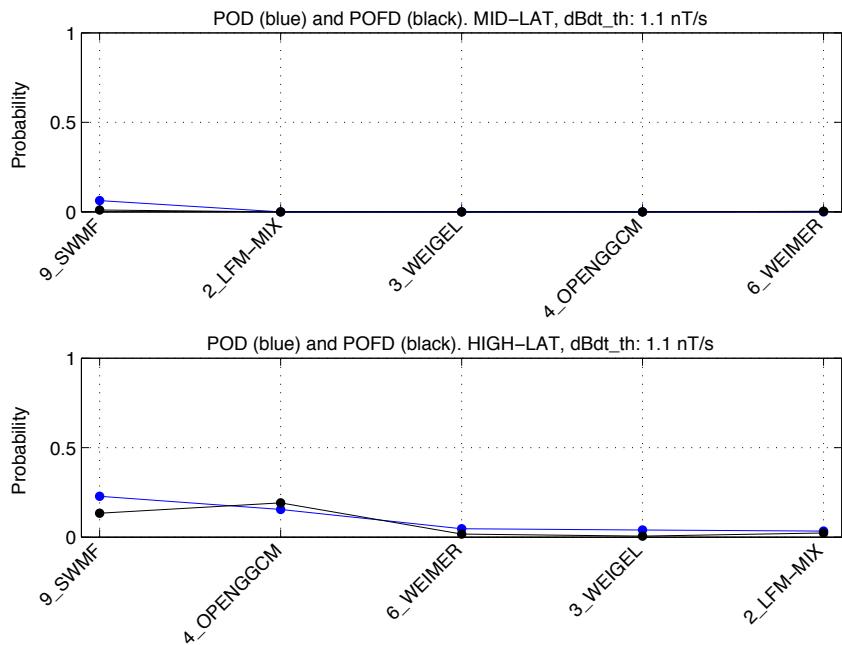


Figure A2c: Event 2: Probability of Detection (POD) (blue curve) and Probability of False Detection (POFD) (black curve) for the dB/dt threshold 1.1 nT/s

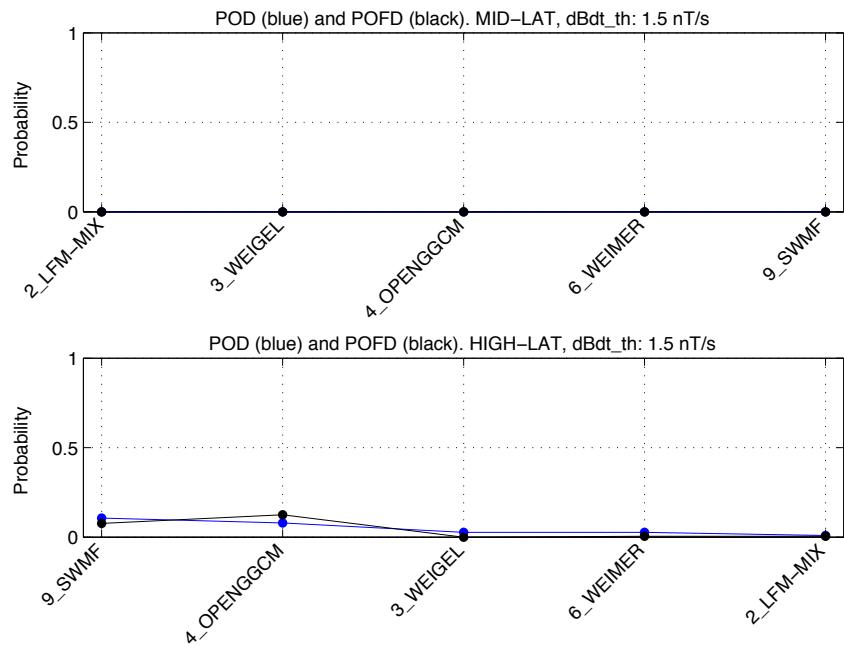


Figure A2d: Event 2: Probability of Detection (POD) (blue curve) and Probability of False Detection (POFD) (black curve) for the dB/dt threshold 1.5 nT/s

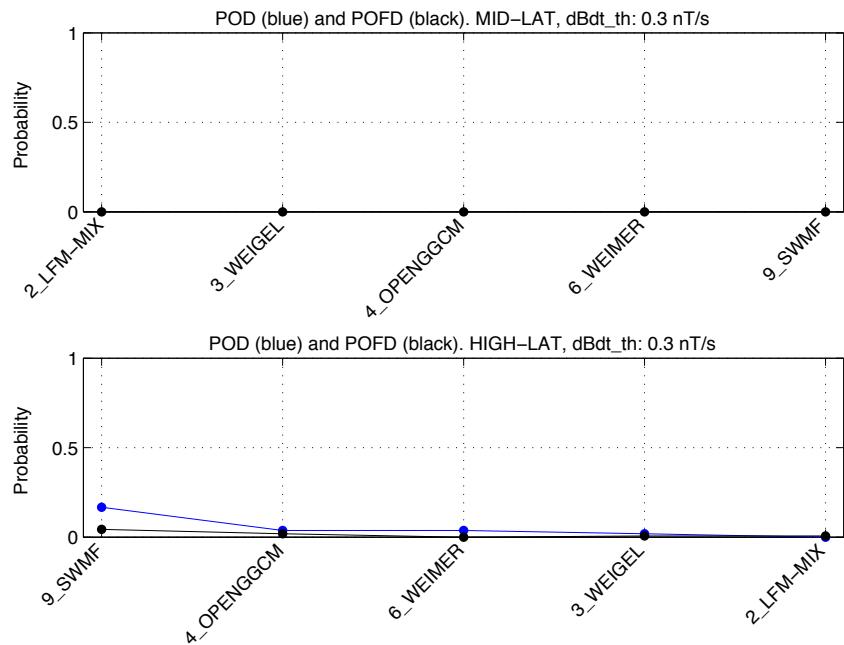


Figure A3a: Event 3: Probability of Detection (POD) (blue curve) and Probability of False Detection (POFD) (black curve) for the dB/dt threshold 0.3 nT/s

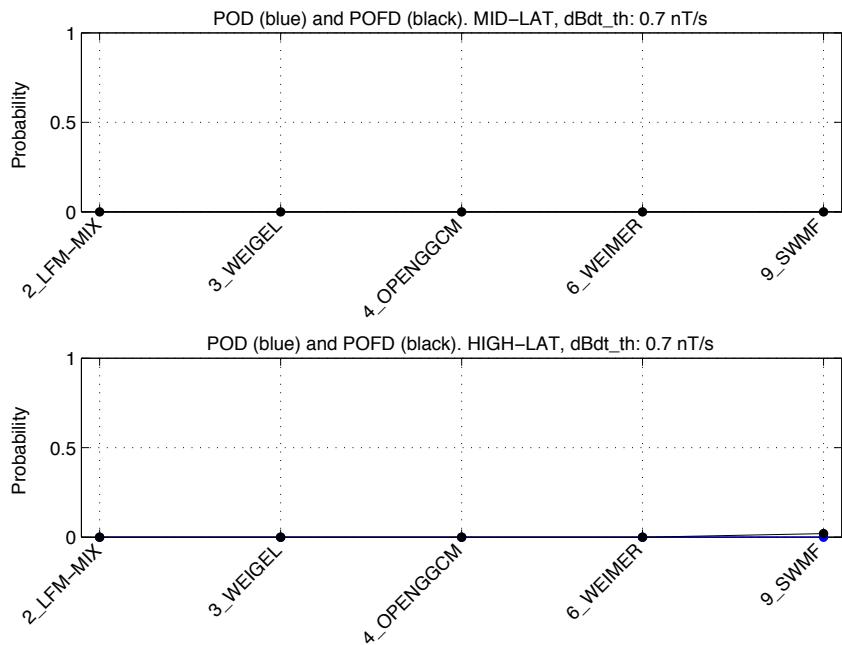


Figure A3b: Event 3: Probability of Detection (POD) (blue curve) and Probability of False Detection (POFD) (black curve) for the dB/dt threshold 0.7 nT/s

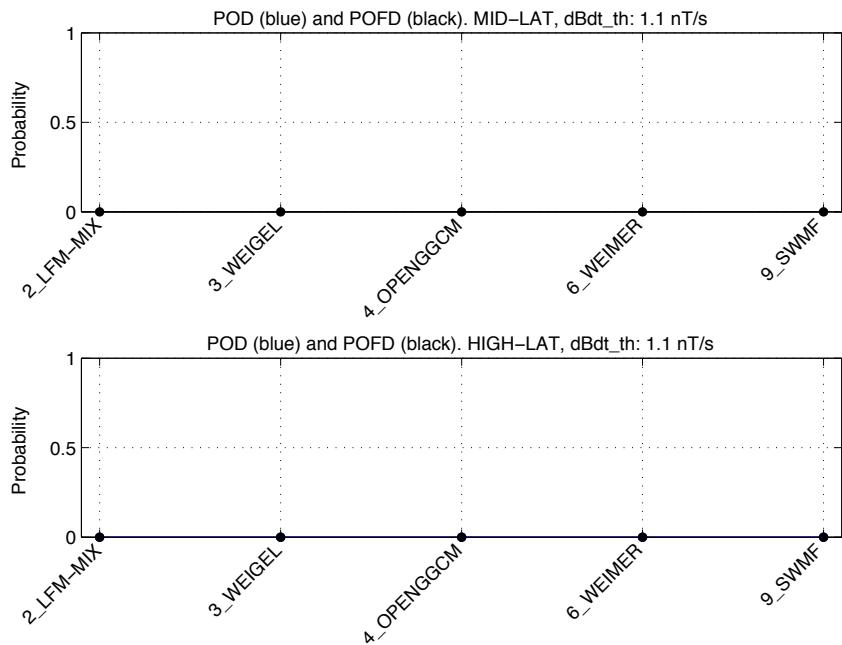


Figure A3c: Event 3: Probability of Detection (POD) (blue curve) and Probability of False Detection (POFD) (black curve) for the $\text{d}B/\text{dt}$ threshold 1.1 nT/s

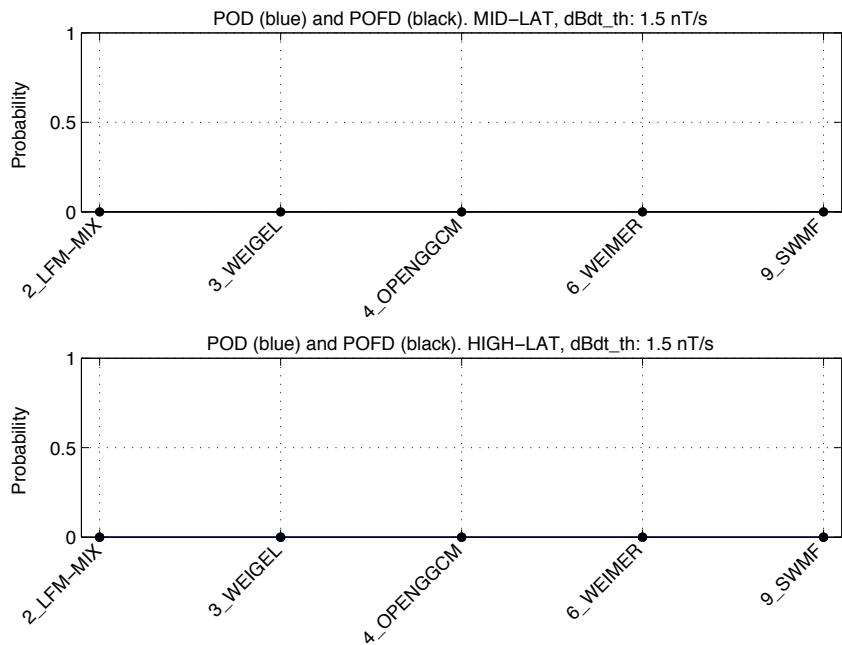


Figure A3d: Event 3: Probability of Detection (POD) (blue curve) and Probability of False Detection (POFD) (black curve) for the dB/dt threshold 1.5 nT/s

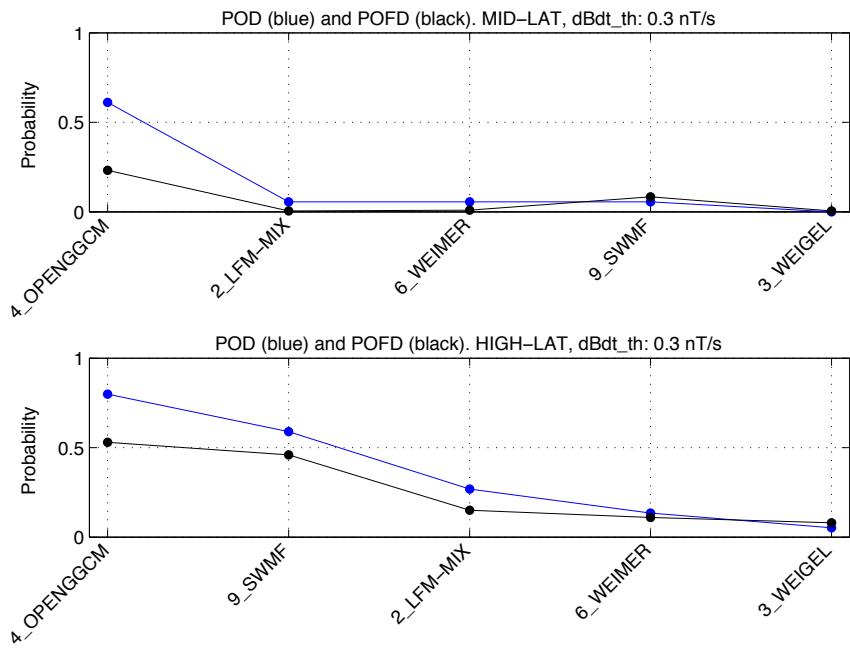


Figure A4a: Event 4: Probability of Detection (POD) (blue curve) and Probability of False Detection (POFD) (black curve) for the dB/dt threshold 0.3 nT/s

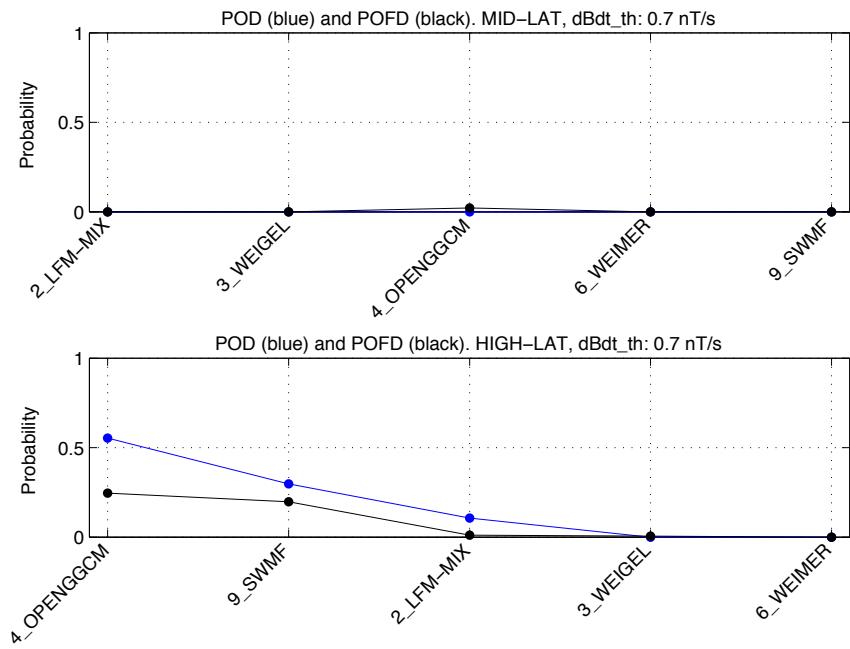


Figure A4b: Event 4: Probability of Detection (POD) (blue curve) and Probability of False Detection (POFD) (black curve) for the $\text{d}B/\text{dt}$ threshold 0.7 nT/s

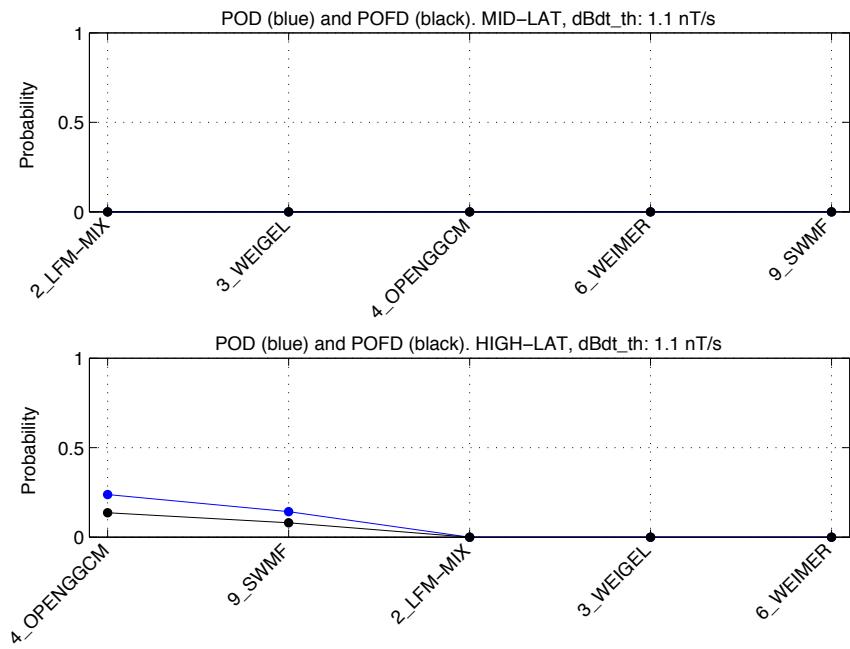


Figure A4c: Event 4: Probability of Detection (POD) (blue curve) and Probability of False Detection (POFD) (black curve) for the dB/dt threshold 1.1 nT/s

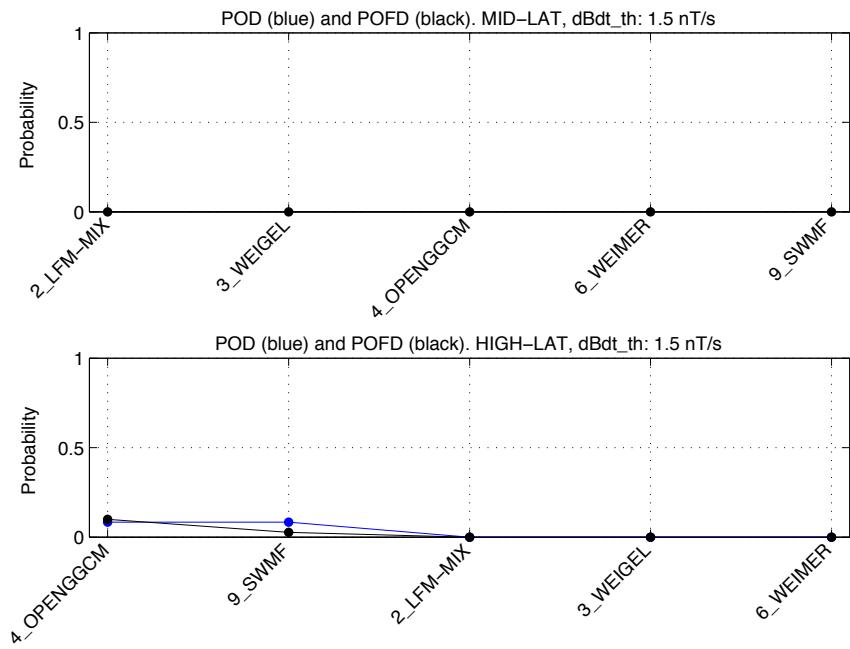


Figure A4d: Event 4: Probability of Detection (POD) (blue curve) and Probability of False Detection (POFD) (black curve) for the dB/dt threshold 1.5 nT/s

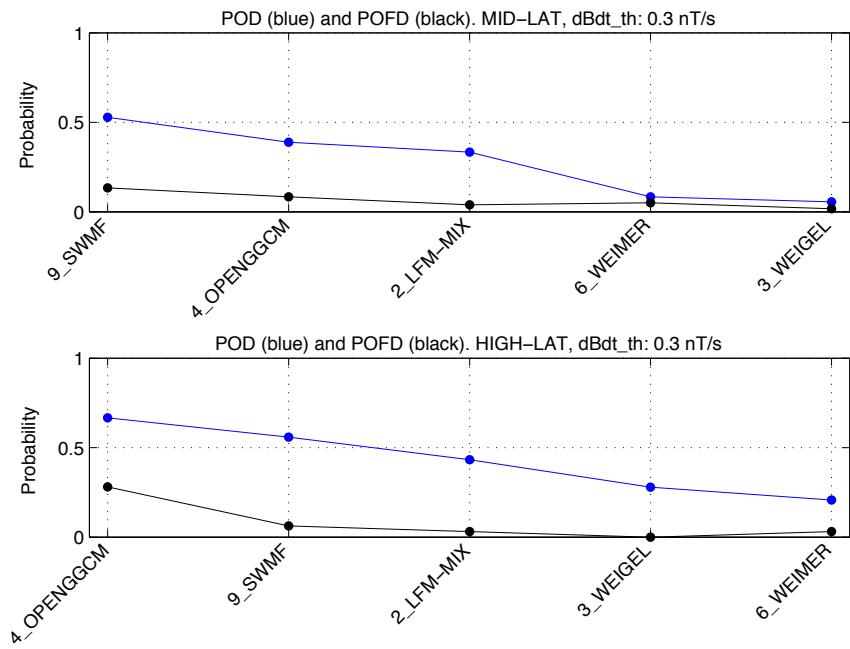


Figure A5a: Event 5: Probability of Detection (POD) (blue curve) and Probability of False Detection (POFD) (black curve) for the dB/dt threshold 0.3 nT/s

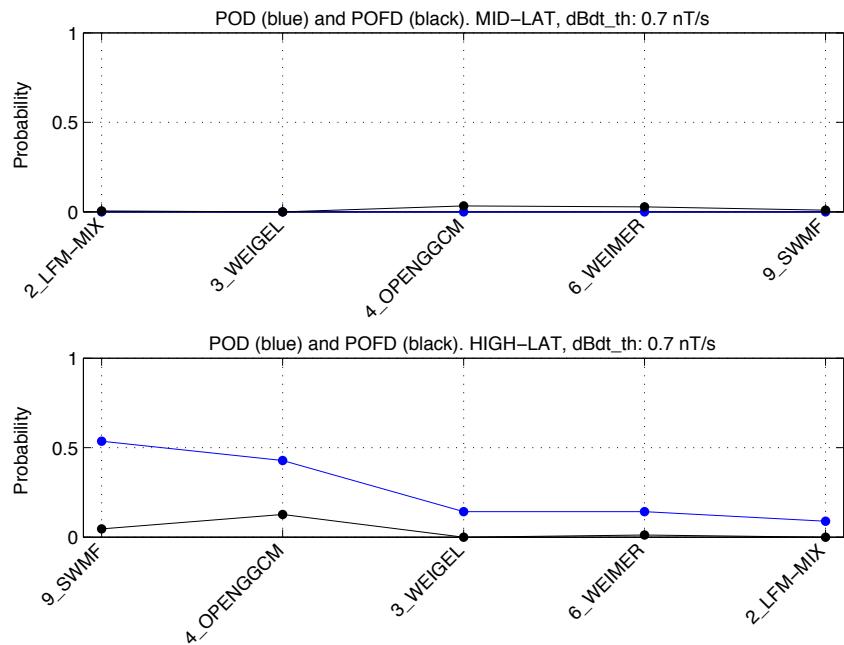


Figure A5b: Event 5: Probability of Detection (POD) (blue curve) and Probability of False Detection (POFD) (black curve) for the dB/dt threshold 0.7 nT/s

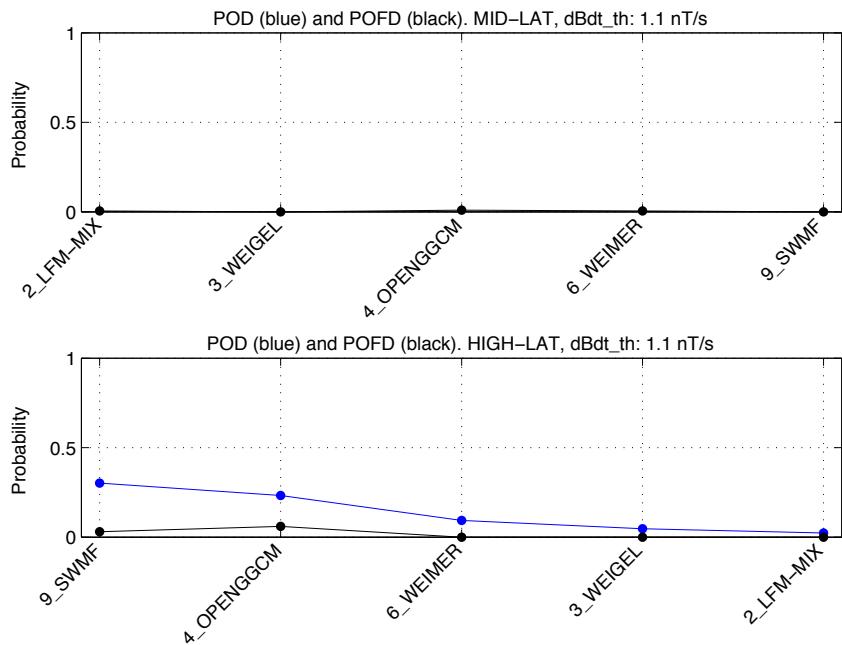


Figure A5c: Event 5: Probability of Detection (POD) (blue curve) and Probability of False Detection (POFD) (black curve) for the dB/dt threshold 1.1 nT/s

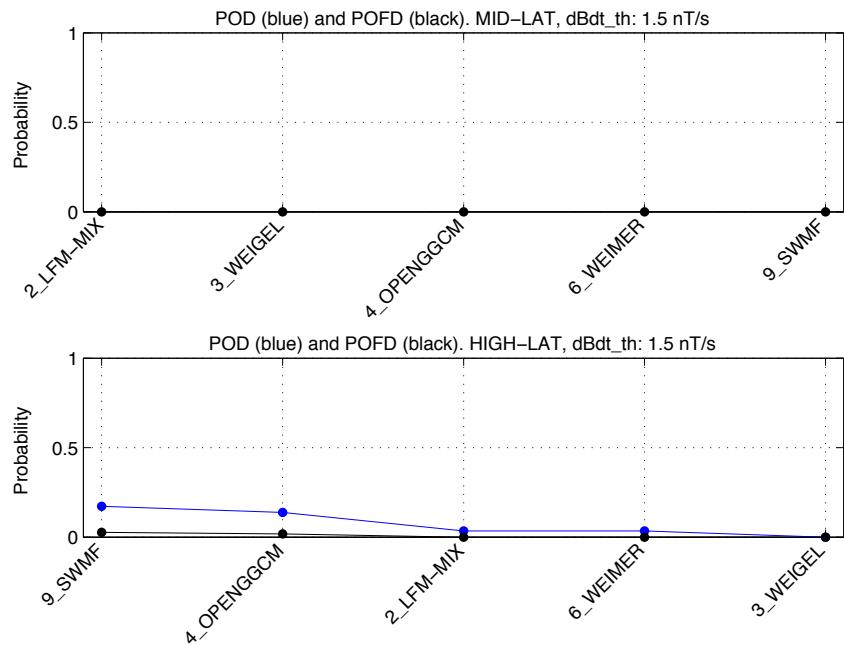


Figure A5d: Event 5: Probability of Detection (POD) (blue curve) and Probability of False Detection (POFD) (black curve) for the dB/dt threshold 1.5 nT/s

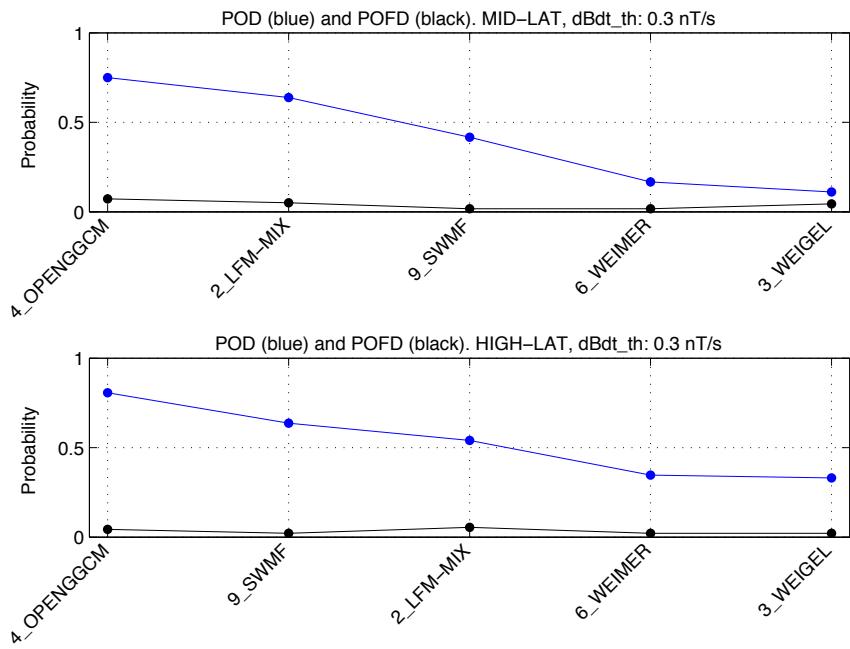


Figure A6a: Event 6: Probability of Detection (POD) (blue curve) and Probability of False Detection (POFD) (black curve) for the dB/dt threshold 0.3 nT/s

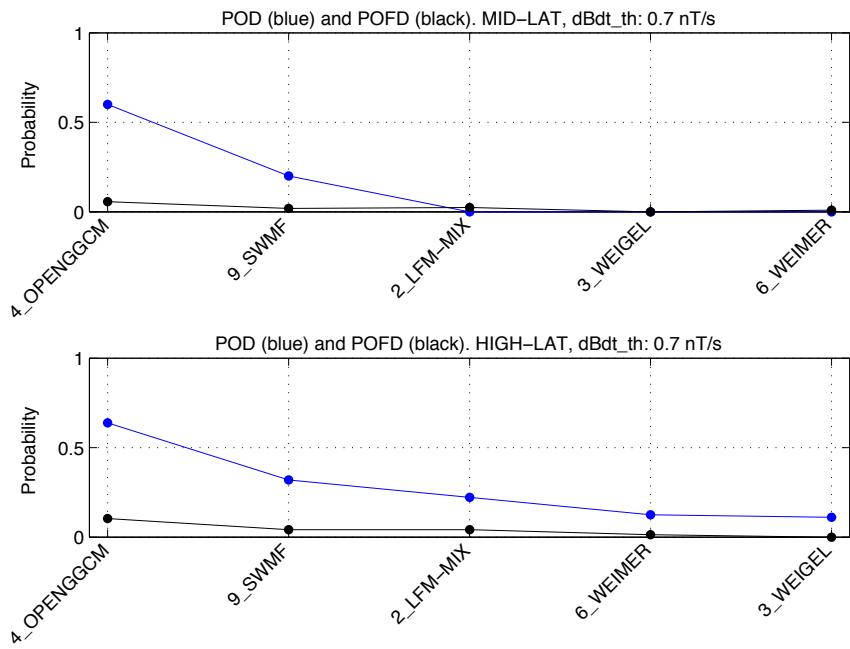


Figure A6b: Event 6: Probability of Detection (POD) (blue curve) and Probability of False Detection (POFD) (black curve) for the dB/dt threshold 0.7 nT/s

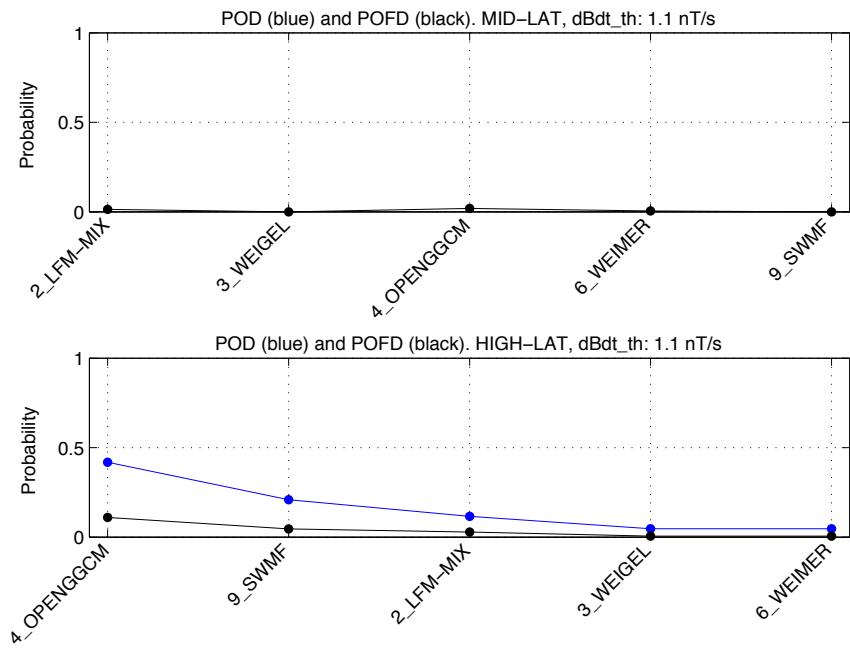


Figure A6c: Event 6: Probability of Detection (POD) (blue curve) and Probability of False Detection (POFD) (black curve) for the dB/dt threshold 1.1 nT/s

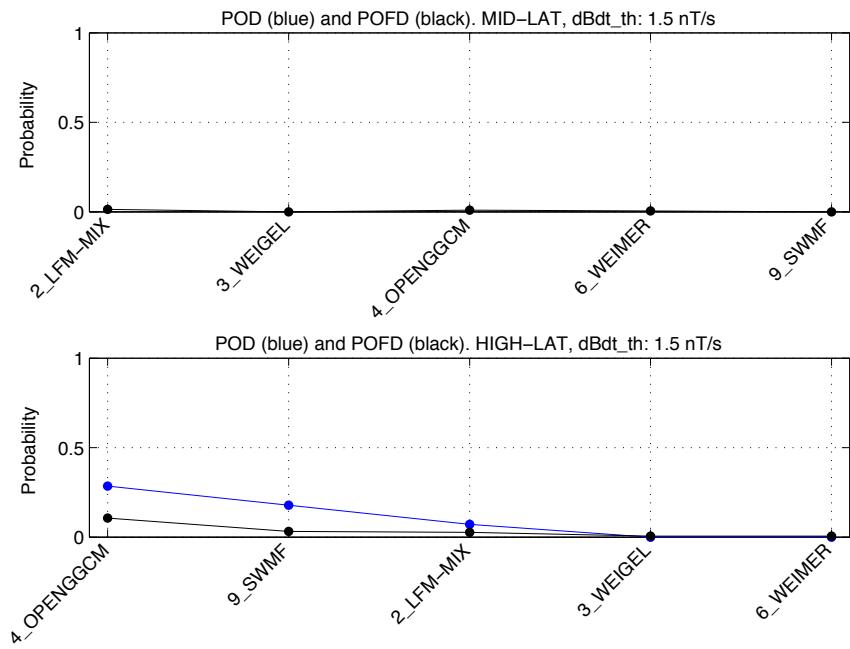


Figure A6d: Event 6: Probability of Detection (POD) (blue curve) and Probability of False Detection (POFD) (black curve) for the dB/dt threshold 1.5 nT/s

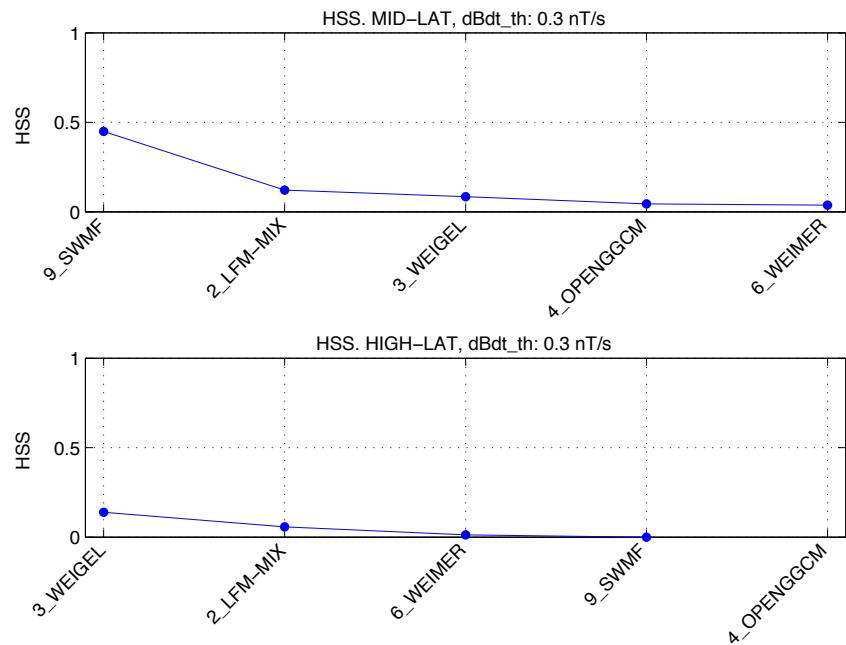


Figure B1a: Event 1: Heidke Skill Score (HSS) for the dB/dt threshold 0.3 nT/s

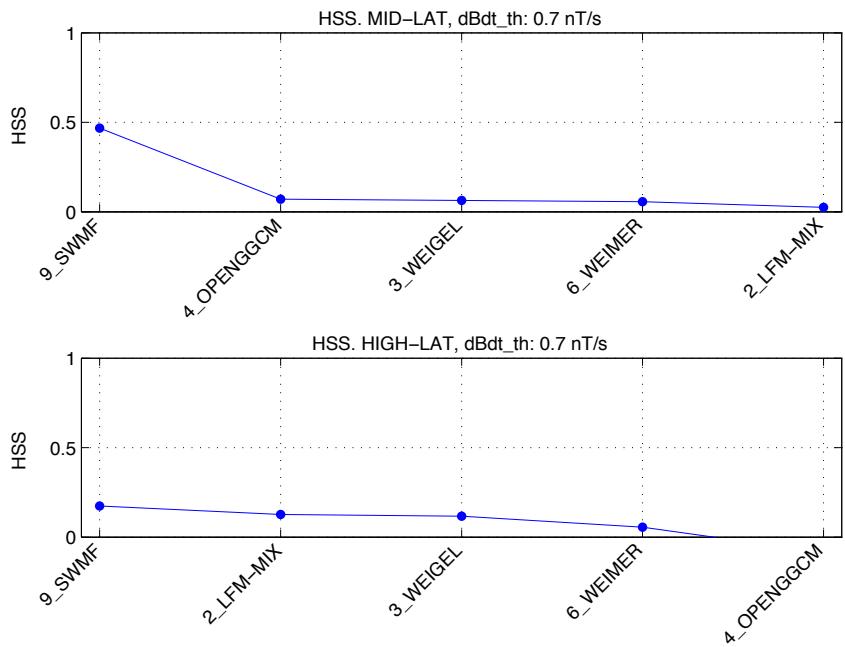


Figure B1b: Event 1: Heidke Skill Score (HSS) for the dB/dt threshold 0.7 nT/s

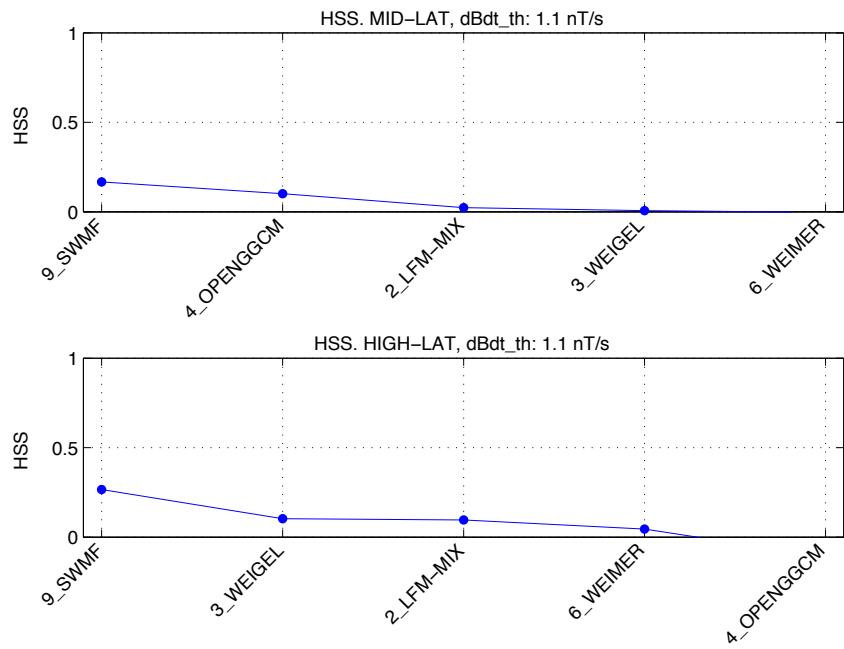


Figure B1c: Event 1: Heidke Skill Score (HSS) for the dB/dt threshold 1.1 nT/s

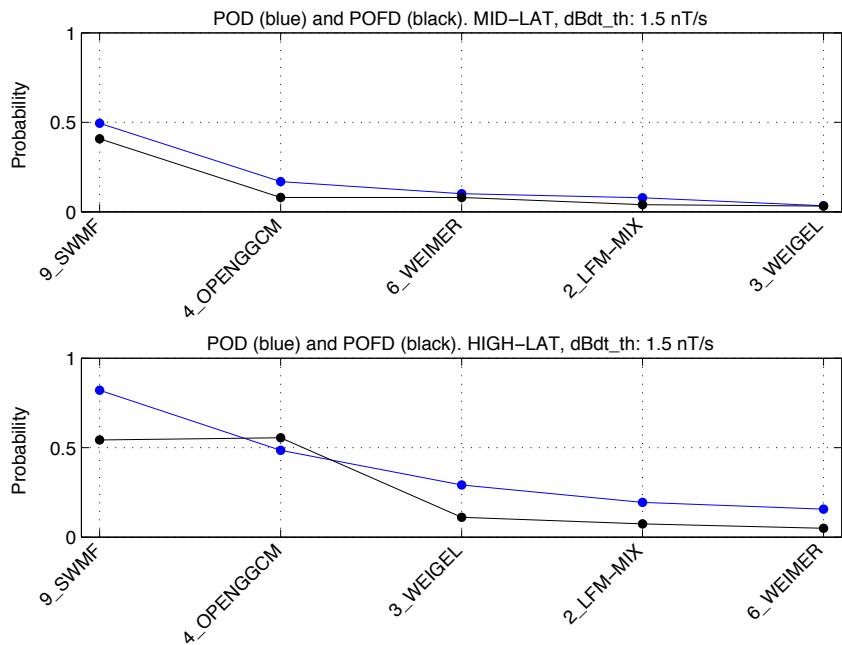


Figure B1d: Event 1: Heidke Skill Score (HSS) for the $\text{d}B/\text{dt}$ threshold 1.5 nT/s

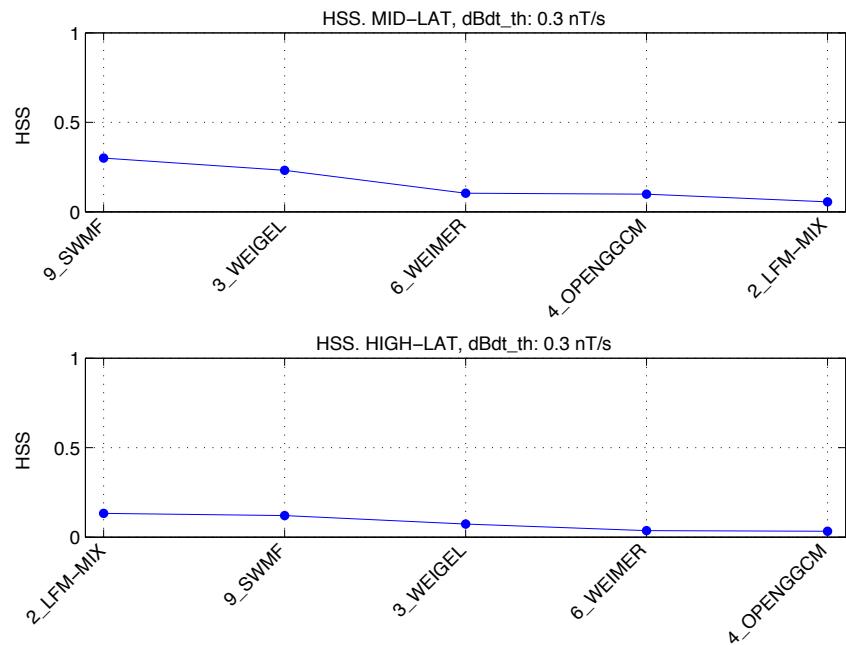


Figure B2a: Event 2: Heidke Skill Score (HSS) for the dB/dt threshold 0.3 nT/s

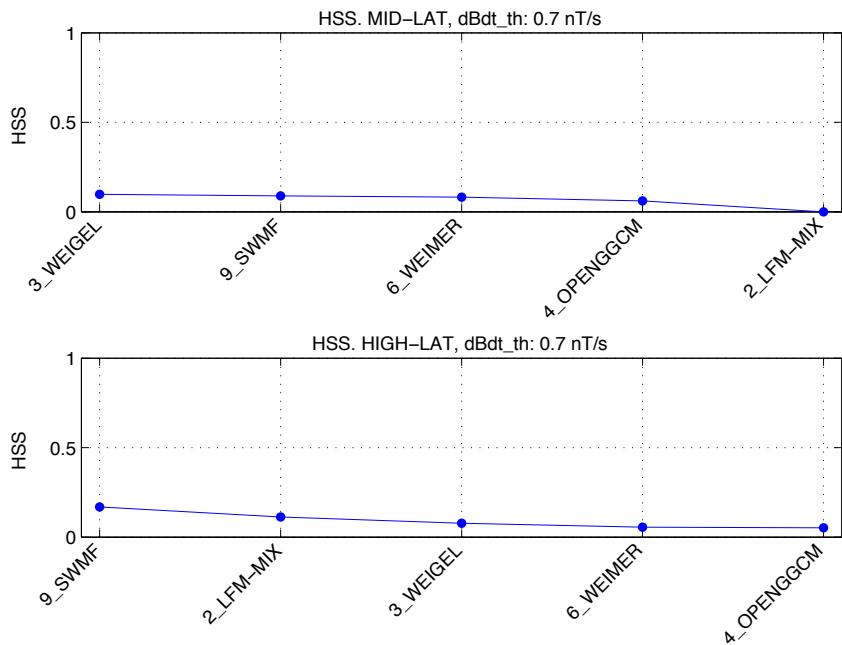


Figure B2b: Event 2: Heidke Skill Score (HSS) for the dB/dt threshold 0.7 nT/s

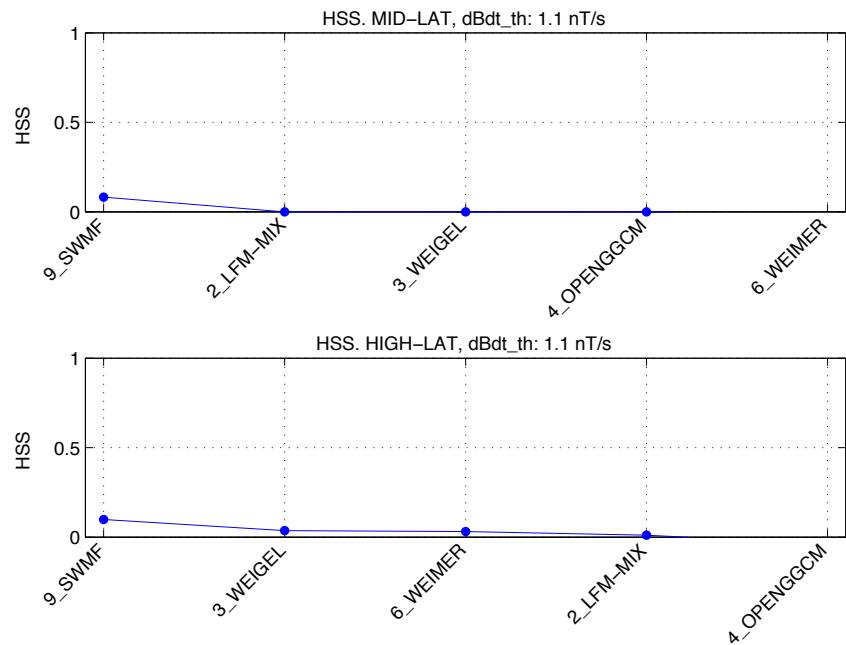


Figure B2c: Event 2: Heidke Skill Score (HSS) for the dB/dt threshold 1.1 nT/s

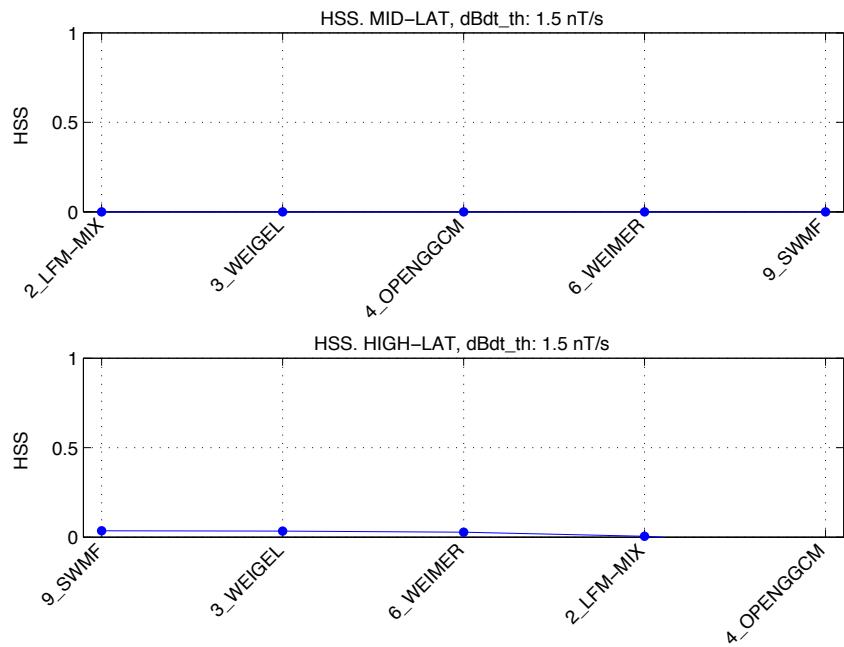


Figure B2d: Event 2: Heidke Skill Score (HSS) for the dB/dt threshold 1.5 nT/s

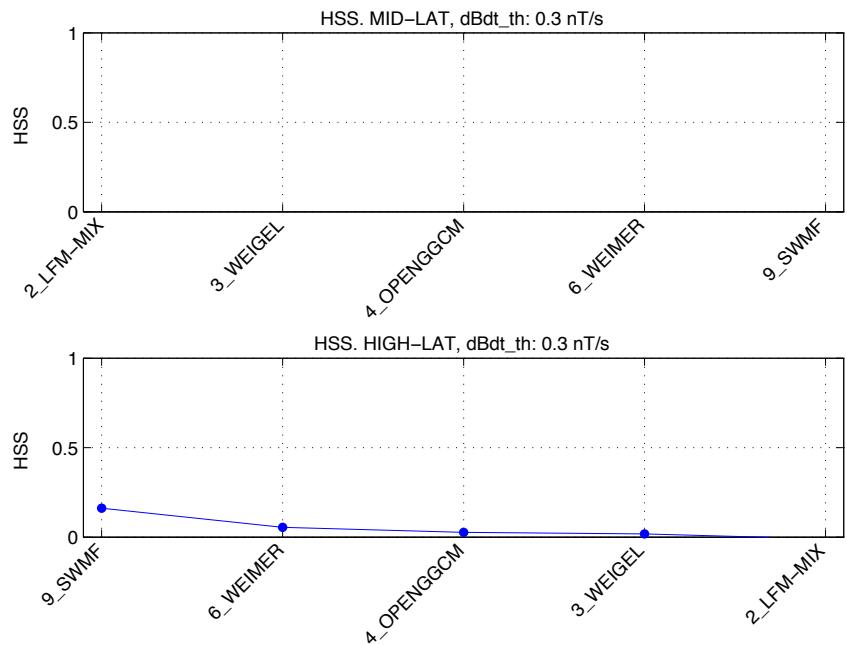


Figure B3a Event 3: Heidke Skill Score (HSS) for the $\text{d}B/\text{dt}$ threshold 0.3 nT/s

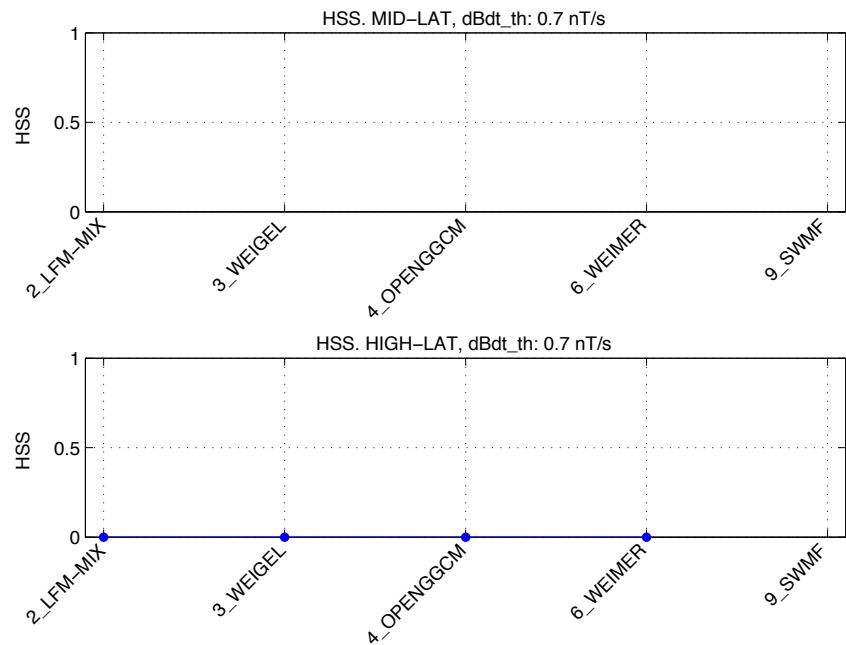


Figure B3b Event 3: Heidke Skill Score (HSS) for the $\text{d}B/\text{dt}$ threshold 0.7 nT/s

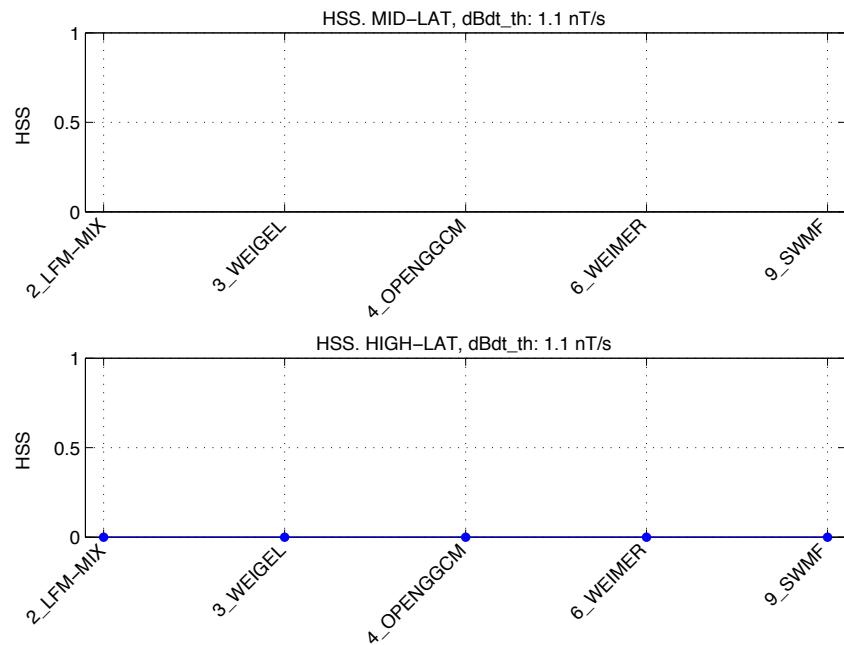


Figure B3c Event 3: Heidke Skill Score (HSS) for the $\text{d}B/\text{dt}$ threshold 1.1 nT/s

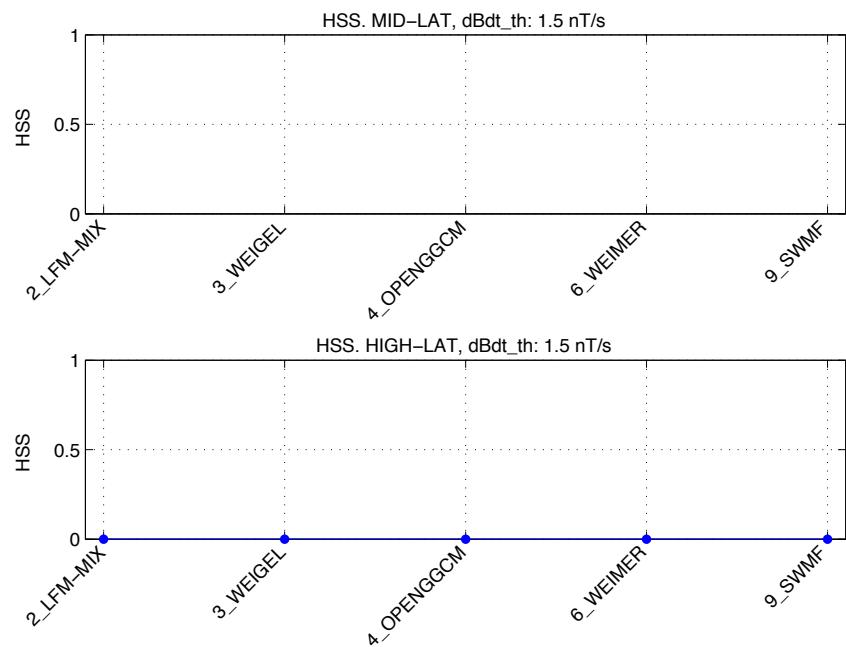


Figure B3d Event 3: Heidke Skill Score (HSS) for the dB/dt threshold 1.5 nT/s

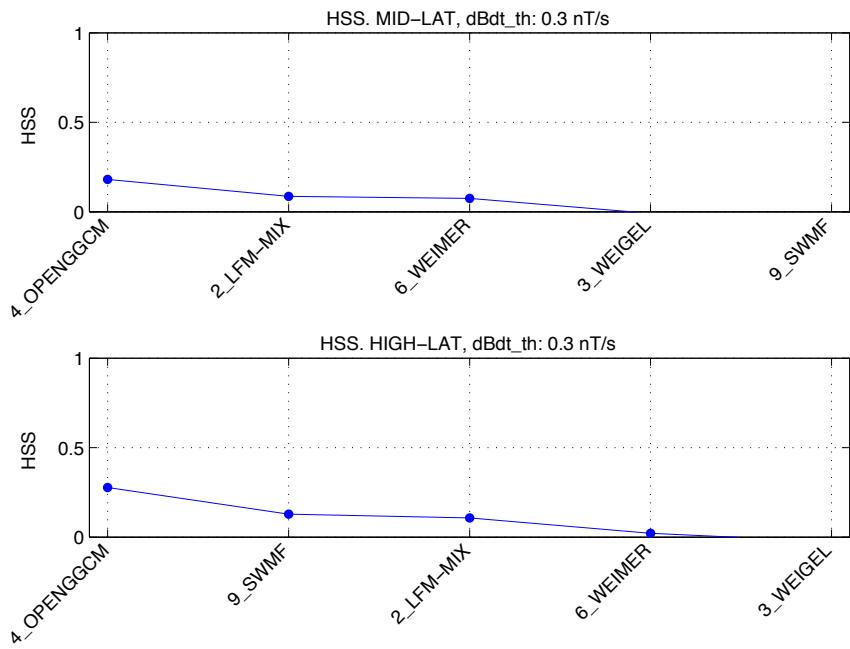


Figure B4a Event 4: Heidke Skill Score (HSS) for the $\text{d}B/\text{dt}$ threshold 0.3 nT/s

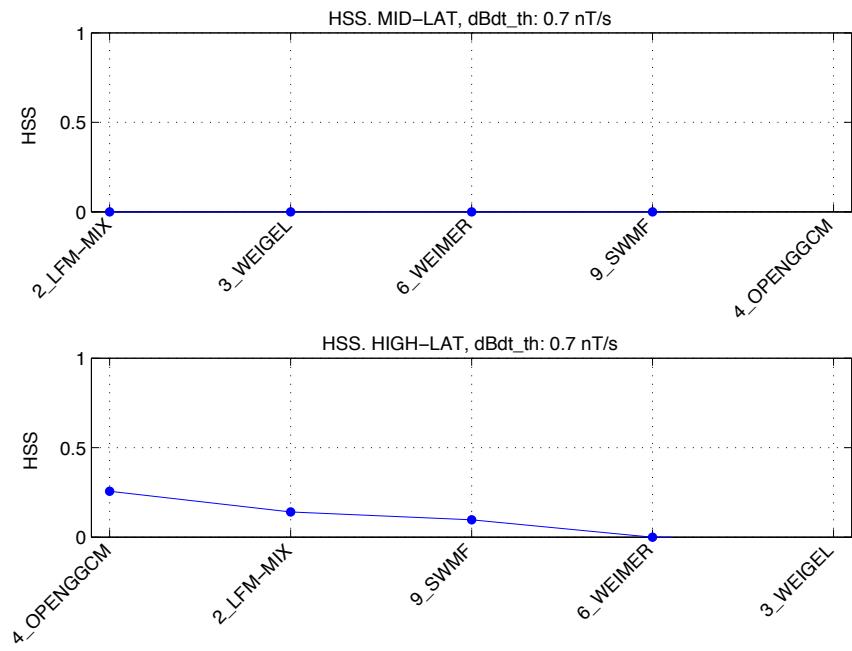


Figure B4b Event 4: Heidke Skill Score (HSS) for the $\text{d}B/\text{dt}$ threshold 0.7 nT/s

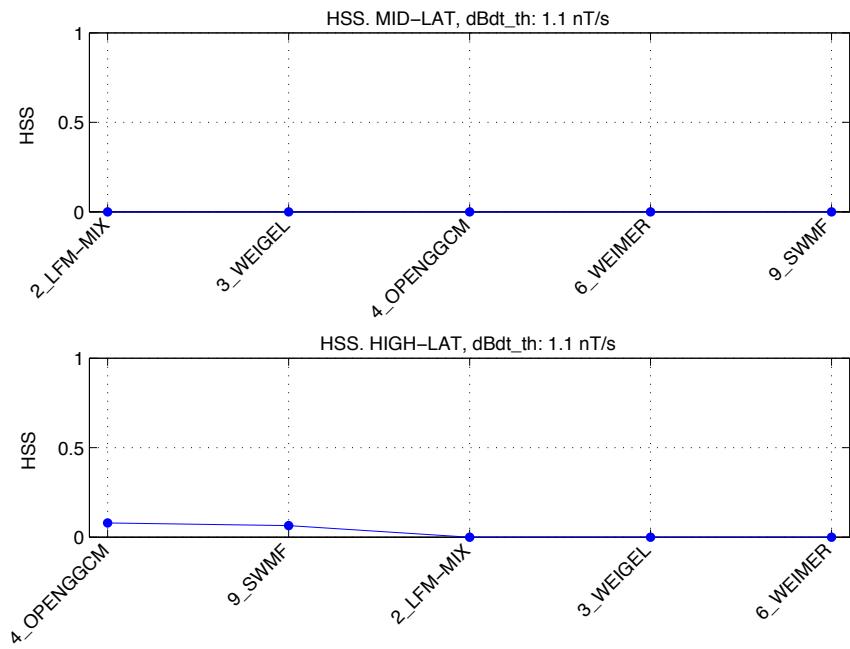


Figure B4c Event 4: Heidke Skill Score (HSS) for the dB/dt threshold 1.1 nT/s

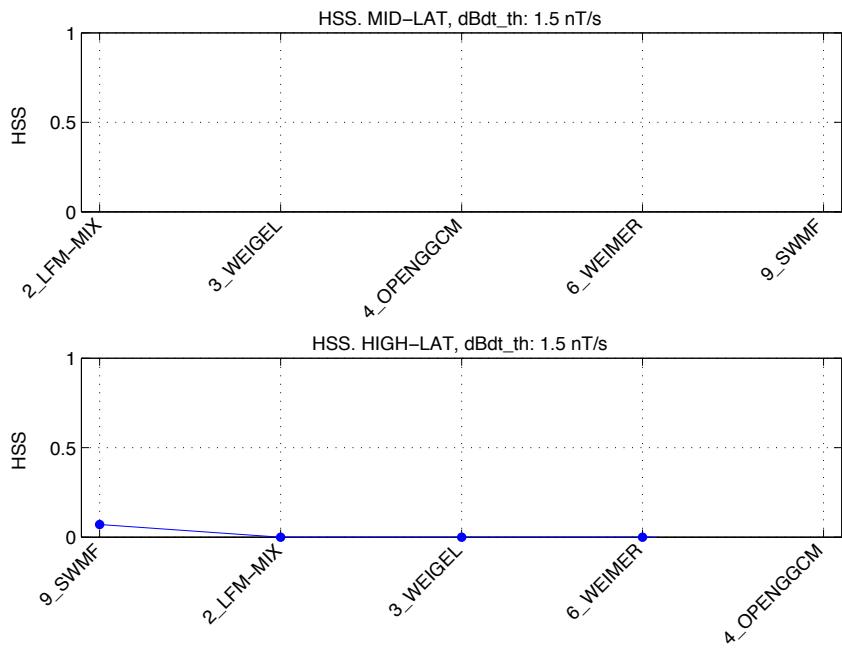


Figure B4d Event 4: Heidke Skill Score (HSS) for the dB/dt threshold 1.5 nT/s

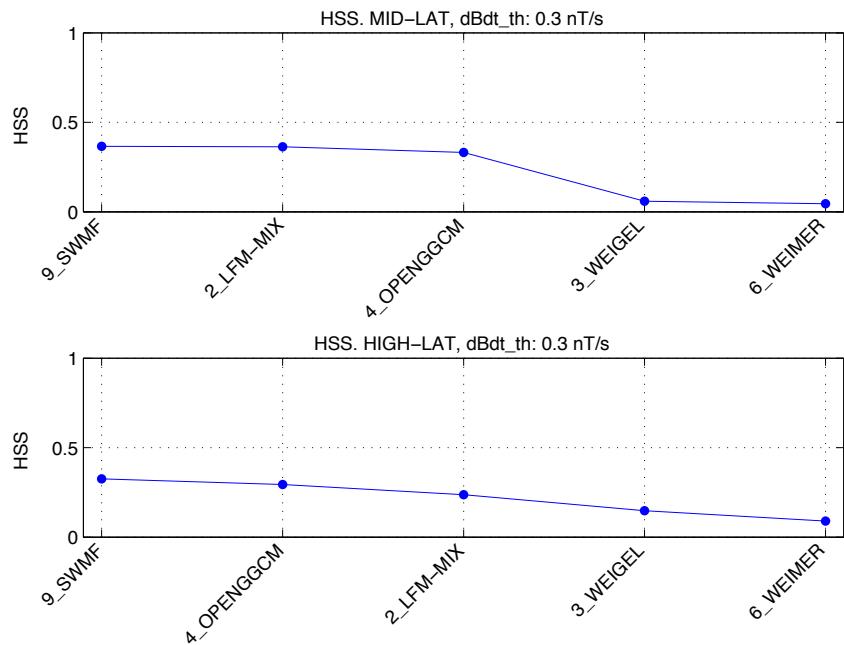


Figure B5a Event 5: Heidke Skill Score (HSS) for the dB/dt threshold 0.3 nT/s

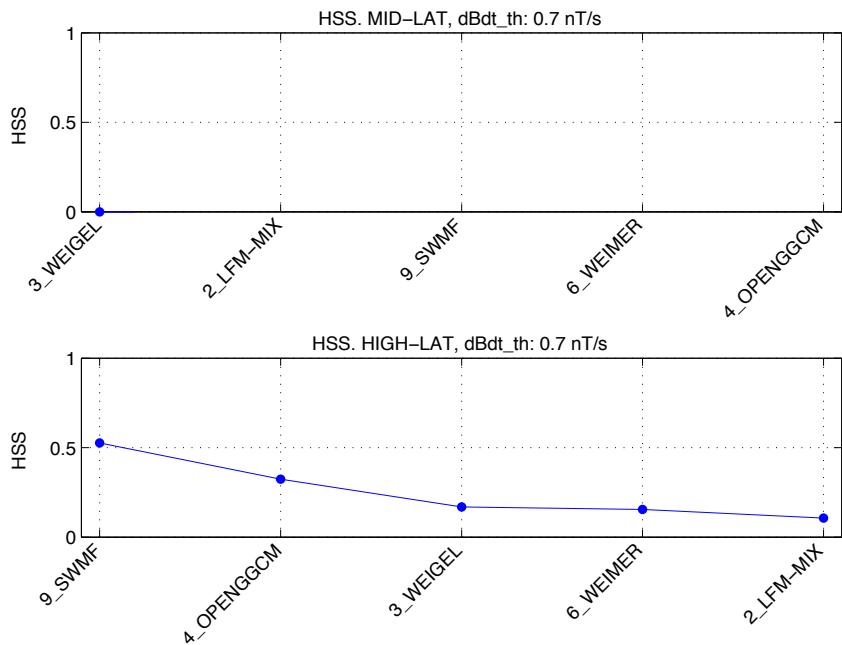


Figure B5b Event 5: Heidke Skill Score (HSS) for the $\text{d}B/\text{dt}$ threshold 0.7 nT/s

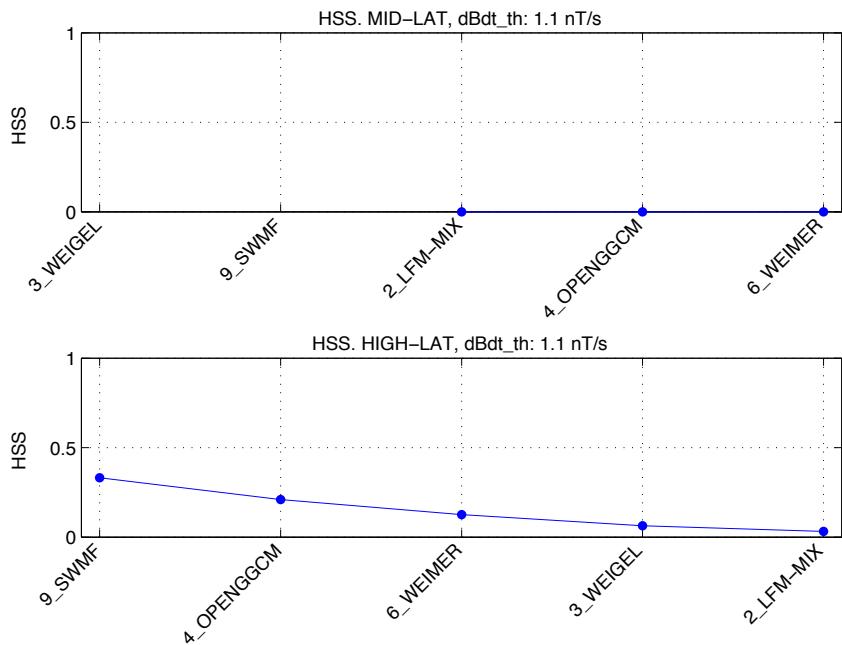


Figure B5c Event 5: Heidke Skill Score (HSS) for the $\text{d}B/\text{dt}$ threshold 1.1 nT/s

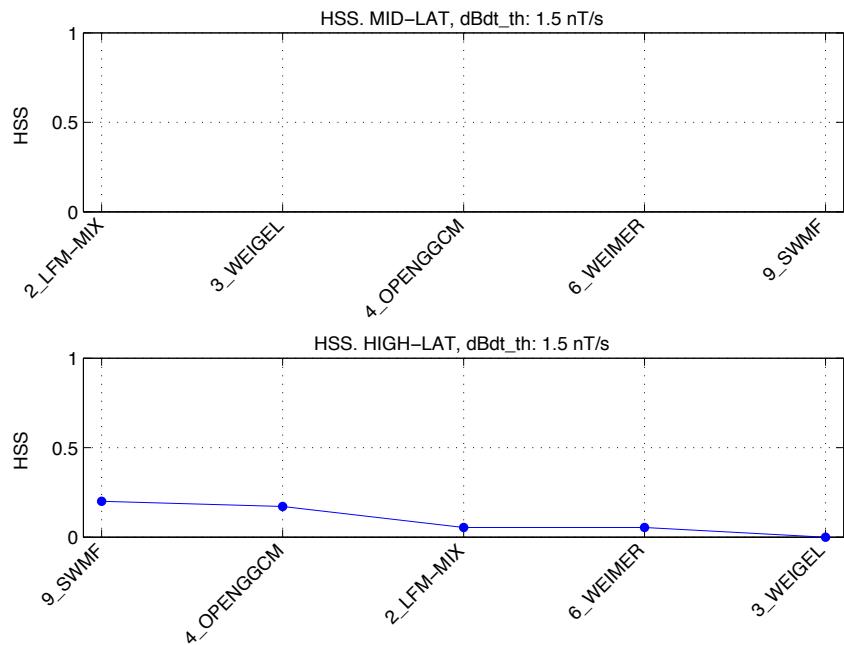


Figure B5d Event 5: Heidke Skill Score (HSS) for the dB/dt threshold 1.5 nT/s

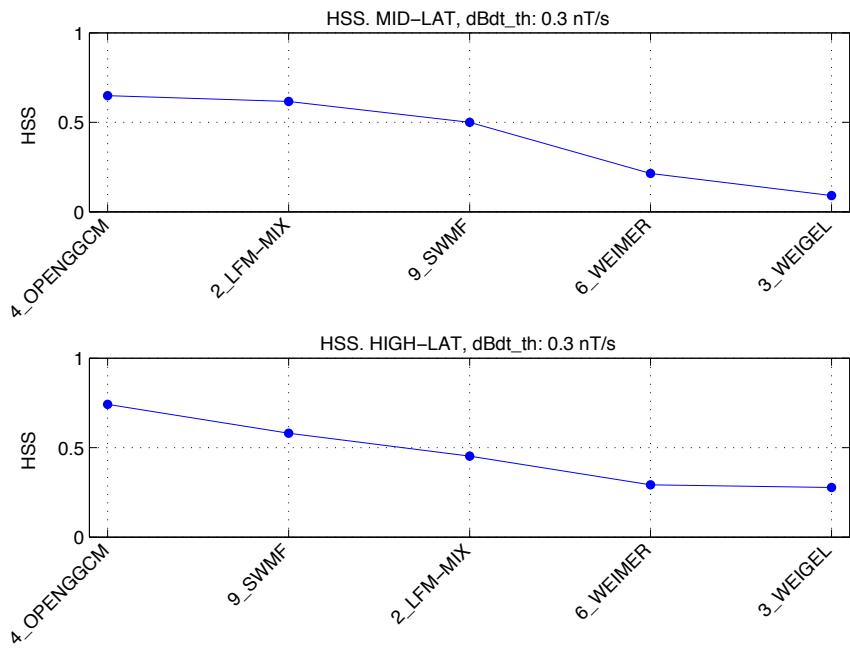


Figure B6a Event 6: Heidke Skill Score (HSS) for the $\text{d}B/\text{dt}$ threshold 0.3 nT/s

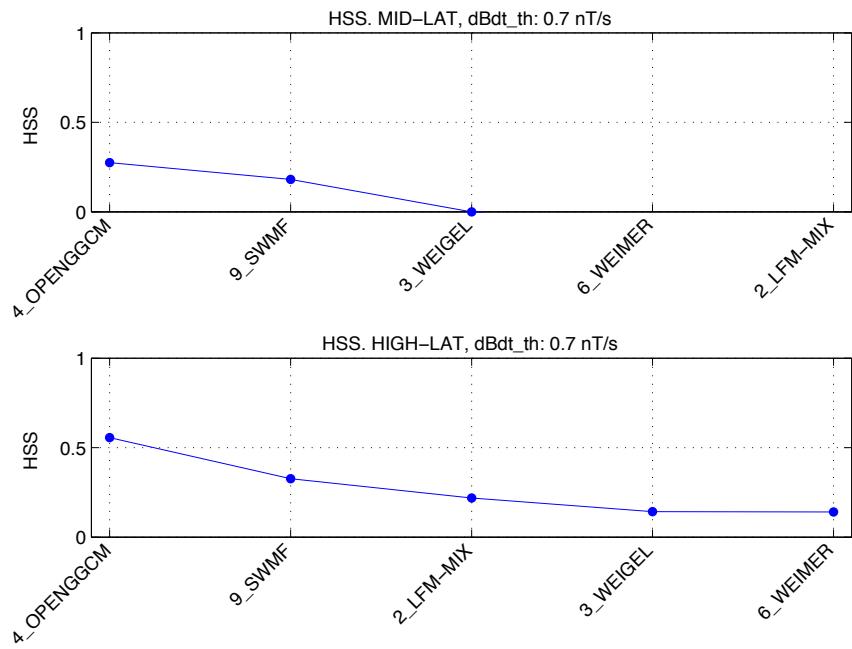


Figure B6b Event 6: Heidke Skill Score (HSS) for the $\text{d}B/\text{dt}$ threshold 0.7 nT/s

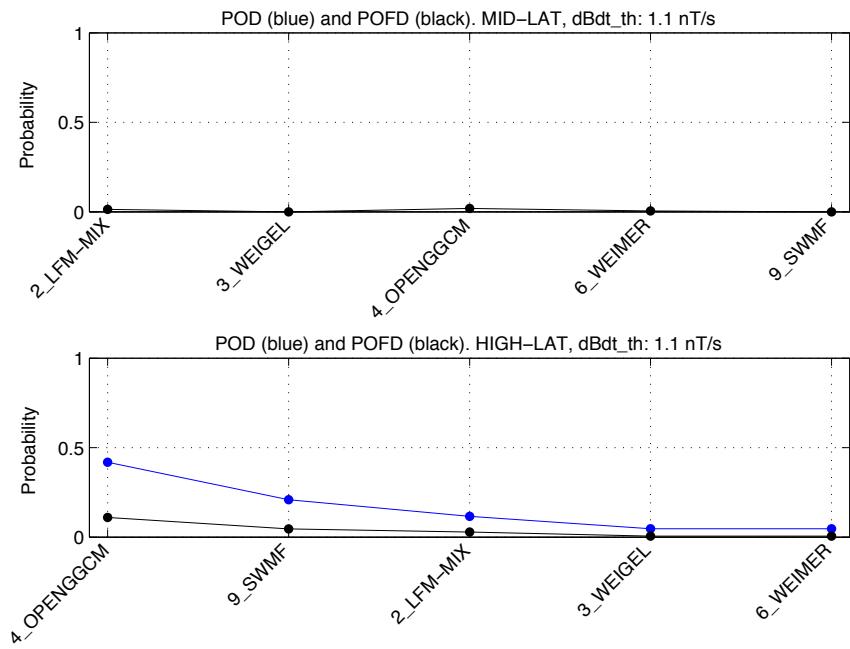


Figure B6c Event 6: Heidke Skill Score (HSS) for the dB/dt threshold 1.1 nT/s

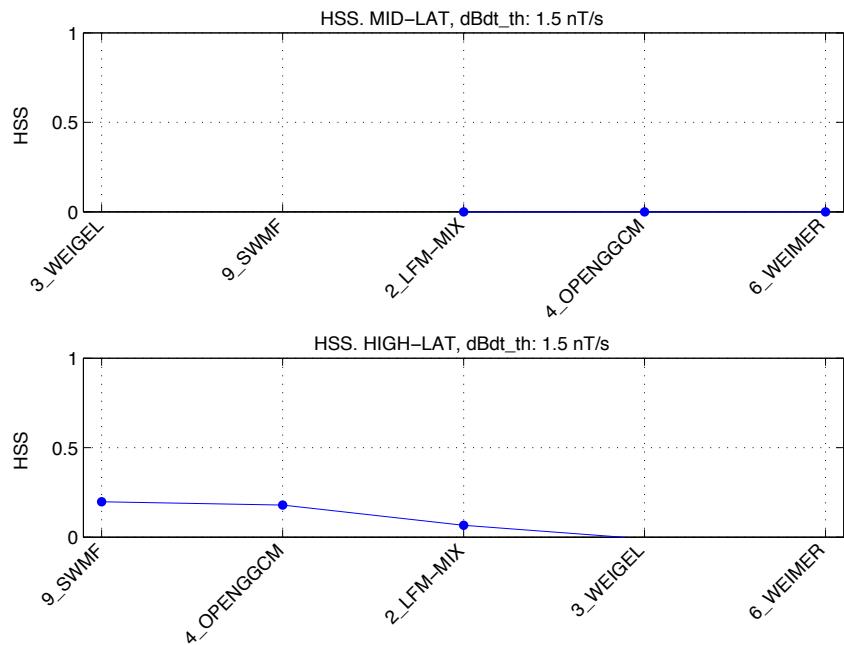


Figure B6d Event 6: Heidke Skill Score (HSS) for the dB/dt threshold 1.5 nT/s

Appendix C: Contingency Tables for Individual Events

Table C1: Event 1

MID-LAT stations: NEW OTT WNG

HIGH-LAT stations: YKC PBQ ABK

		Forecasts		Observations		YES	NO	TOTAL	[MID-LAT][Event no. 1, dBdt_th: 0.3 nT/s, model: 2_LFM-MIX]
		YES		125	001	126			
		NO		078	010	088			
		TOTAL		203	011	214			
<hr/>									
		Forecasts		Observations		YES	NO	TOTAL	[HIGH-LAT]
		YES		189	001	190			
		NO		024	001	025			
		TOTAL		213	002	215			
<hr/>									
		Forecasts		Observations		YES	NO	TOTAL	[MID-LAT][Event no. 1, dBdt_th: 0.3 nT/s, model: 3_WEIGEL]
		YES		096	000	096			
		NO		107	011	118			
		TOTAL		203	011	214			
<hr/>									
		Forecasts		Observations		YES	NO	TOTAL	[HIGH-LAT]
		YES		191	000	191			
		NO		022	002	024			
		TOTAL		213	002	215			
<hr/>									
		Forecasts		Observations		YES	NO	TOTAL	[MID-LAT][Event no. 1, dBdt_th: 0.3 nT/s, model: 4_OPENGGCM]
		YES		115	004	119			
		NO		088	007	095			
		TOTAL		203	011	214			
<hr/>									
		Forecasts		Observations		YES	NO	TOTAL	[HIGH-LAT]
		YES		191	002	193			
		NO		022	000	022			
		TOTAL		213	002	215			
<hr/>									
		Forecasts		Observations		YES	NO	TOTAL	[MID-LAT][Event no. 1, dBdt_th: 0.3 nT/s, model: 6_WEIMER]
		YES		069	001	070			
		NO		134	010	144			
		TOTAL		203	011	214			
<hr/>									
		Forecasts		Observations		YES	NO	TOTAL	[HIGH-LAT]
		YES		088	000	088			
		NO		125	002	127			
		TOTAL		213	002	215			

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 1, dBdt_th: 0.3 nT/s, model: 9_SWMF]

YES	198	006	204
NO	005	005	010
TOTAL	203	011	214

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	213	002	215
NO	000	000	000
TOTAL	213	002	215

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 1, dBdt_th: 0.7 nT/s, model: 2_LFM-MIX]

YES	029	006	035
NO	137	042	179
TOTAL	166	048	214

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	100	003	103
NO	094	018	112
TOTAL	194	021	215

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 1, dBdt_th: 0.7 nT/s, model: 3_WEIGEL]

YES	025	001	026
NO	141	047	188
TOTAL	166	048	214

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	096	003	099
NO	098	018	116
TOTAL	194	021	215

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 1, dBdt_th: 0.7 nT/s, model: 4_OPENGCGCM]

YES	052	009	061
NO	114	039	153
TOTAL	166	048	214

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	136	018	154
NO	058	003	061
TOTAL	194	021	215

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 1, dBdt_th: 0.7 nT/s, model: 6_WEIMER]

YES	029	003	032
NO	137	045	182
TOTAL	166	048	214

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	045	000	045
NO	149	021	170
TOTAL	194	021	215

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 1, dBdt_th: 0.7 nT/s, model: 9_SWMF]

YES	152	023	175
NO	014	025	039
TOTAL	166	048	214

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	190	018	208
NO	004	003	007
TOTAL	194	021	215

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 1, dBdt_th: 1.1 nT/s, model: 2_LFM-MIX]

YES	011	005	016
NO	117	081	198
TOTAL	128	086	214

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	050	006	056
NO	117	042	159
TOTAL	167	048	215

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 1, dBdt_th: 1.1 nT/s, model: 3_WEIGEL]

YES	007	004	011
NO	121	082	203
TOTAL	128	086	214

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	055	007	062
NO	112	041	153
TOTAL	167	048	215

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 1, dBdt_th: 1.1 nT/s, model:
4_OPENGGCM]

		030	010	040
	YES	098	076	174
	TOTAL	128	086	214

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

	095	034	129	
	NO	072	014	086
	TOTAL	167	048	215

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 1, dBdt_th: 1.1 nT/s, model:
6_WEIMER]

	013	009	022	
	NO	115	077	192
	TOTAL	128	086	214

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

	029	004	033	
	NO	138	044	182
	TOTAL	167	048	215

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 1, dBdt_th: 1.1 nT/s, model:
9_SWMF]

	084	042	126	
	NO	044	044	088
	TOTAL	128	086	214

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

	153	033	186	
	NO	014	015	029
	TOTAL	167	048	215

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 1, dBdt_th: 1.5 nT/s, model:
2_LFM-MIX]

	007	005	012	
	NO	082	120	202
	TOTAL	089	125	214

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

	026	006	032	
	NO	108	075	183
	TOTAL	134	081	215

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 1, dBdt_th: 1.5 nT/s, model:
3_WEIGEL]

YES	003	004	007
NO	086	121	207
TOTAL	089	125	214

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	039	009	048
NO	095	072	167
TOTAL	134	081	215

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 1, dBdt_th: 1.5 nT/s, model:
4_OPENGCGCM]

YES	015	010	025
NO	074	115	189
TOTAL	089	125	214

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	065	045	110
NO	069	036	105
TOTAL	134	081	215

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 1, dBdt_th: 1.5 nT/s, model:
6_WEIMER]

YES	009	010	019
NO	080	115	195
TOTAL	089	125	214

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	021	004	025
NO	113	077	190
TOTAL	134	081	215

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 1, dBdt_th: 1.5 nT/s, model:
9_SWMF]

YES	044	051	095
NO	045	074	119
TOTAL	089	125	214

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	110	044	154
NO	024	037	061
TOTAL	134	081	215

Table C2: Event 2

MID-LAT stations: NEW OTT WNG
HIGH-LAT stations: YKC PBQ ABK

Forecasts	Observations	YES	NO	TOTAL	[MID-LAT][Event no. 2, dBdt_th: 0.3 nT/s, model: 2_LFM-MIX]
<hr/>					
YES		010	011	021	
NO		095	205	300	
TOTAL		105	216	321	
<hr/>					
Forecasts	Observations	YES	NO	TOTAL	[HIGH-LAT]
<hr/>					
YES		146	001	147	
NO		148	026	174	
TOTAL		294	027	321	
<hr/>					
Forecasts	Observations	YES	NO	TOTAL	[MID-LAT][Event no. 2, dBdt_th: 0.3 nT/s, model: 3_WEIGEL]
<hr/>					
YES		021	003	024	
NO		084	213	297	
TOTAL		105	216	321	
<hr/>					
Forecasts	Observations	YES	NO	TOTAL	[HIGH-LAT]
<hr/>					
YES		094	000	094	
NO		200	027	227	
TOTAL		294	027	321	
<hr/>					
Forecasts	Observations	YES	NO	TOTAL	[MID-LAT][Event no. 2, dBdt_th: 0.3 nT/s, model: 4_OPENGGCM]
<hr/>					
YES		020	023	043	
NO		085	193	278	
TOTAL		105	216	321	
<hr/>					
Forecasts	Observations	YES	NO	TOTAL	[HIGH-LAT]
<hr/>					
YES		188	015	203	
NO		106	012	118	
TOTAL		294	027	321	
<hr/>					
Forecasts	Observations	YES	NO	TOTAL	[MID-LAT][Event no. 2, dBdt_th: 0.3 nT/s, model: 6_WEIMER]
<hr/>					
YES		012	007	019	
NO		093	209	302	
TOTAL		105	216	321	
<hr/>					
Forecasts	Observations	YES	NO	TOTAL	[HIGH-LAT]
<hr/>					
YES		054	000	054	
NO		240	027	267	
TOTAL		294	027	321	

Forecasts	Observations YES NO TOTAL [MID-LAT][Event no. 2, dBdt_th: 0.3 nT/s, model: 9_SWMF]
YES	048 037 085
NO	057 179 236
TOTAL	105 216 321
Forecasts	Observations YES NO TOTAL [HIGH-LAT]
YES	203 011 214
NO	091 016 107
TOTAL	294 027 321
Forecasts	Observations YES NO TOTAL [MID-LAT][Event no. 2, dBdt_th: 0.7 nT/s, model: 2_LFM-MIX]
YES	000 000 000
NO	035 286 321
TOTAL	035 286 321
Forecasts	Observations YES NO TOTAL [HIGH-LAT]
YES	039 001 040
NO	181 100 281
TOTAL	220 101 321
Forecasts	Observations YES NO TOTAL [MID-LAT][Event no. 2, dBdt_th: 0.7 nT/s, model: 3_WEIGEL]
YES	002 000 002
NO	033 286 319
TOTAL	035 286 321
Forecasts	Observations YES NO TOTAL [HIGH-LAT]
YES	028 001 029
NO	192 100 292
TOTAL	220 101 321
Forecasts	Observations YES NO TOTAL [MID-LAT][Event no. 2, dBdt_th: 0.7 nT/s, model: 4_OPENGGCM]
YES	002 005 007
NO	033 281 314
TOTAL	035 286 321
Forecasts	Observations YES NO TOTAL [HIGH-LAT]
YES	078 029 107
NO	142 072 214
TOTAL	220 101 321

Forecasts		Observations YES NO TOTAL [MID-LAT]			[Event no. 2, dBdt_th: 0.7 nT/s, model: 6_WEIMER]
<hr/>					
YES		002	002	004	
NO		033	284	317	
TOTAL		035	286	321	
<hr/>					
Forecasts		Observations YES NO TOTAL [HIGH-LAT]			
YES		021	001	022	
NO		199	100	299	
TOTAL		220	101	321	
<hr/>					
Forecasts		Observations YES NO TOTAL [MID-LAT]			[Event no. 2, dBdt_th: 0.7 nT/s, model: 9_SWMF]
YES		004	013	017	
NO		031	273	304	
TOTAL		035	286	321	
<hr/>					
Forecasts		Observations YES NO TOTAL [HIGH-LAT]			
YES		084	016	100	
NO		136	085	221	
TOTAL		220	101	321	
<hr/>					
Forecasts		Observations YES NO TOTAL [MID-LAT]			[Event no. 2, dBdt_th: 1.1 nT/s, model: 2_LFM-MIX]
YES		000	000	000	
NO		016	305	321	
TOTAL		016	305	321	
<hr/>					
Forecasts		Observations YES NO TOTAL [HIGH-LAT]			
YES		005	004	009	
NO		144	168	312	
TOTAL		149	172	321	
<hr/>					
Forecasts		Observations YES NO TOTAL [MID-LAT]			[Event no. 2, dBdt_th: 1.1 nT/s, model: 3_WEIGEL]
YES		000	000	000	
NO		016	305	321	
TOTAL		016	305	321	
<hr/>					
Forecasts		Observations YES NO TOTAL [HIGH-LAT]			
YES		006	001	007	
NO		143	171	314	
TOTAL		149	172	321	

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 2, dBdt_th: 1.1 nT/s, model:
4_OPENGCM]

YES	000	000	000
NO	016	305	321
TOTAL	016	305	321

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	023	033	056
NO	126	139	265
TOTAL	149	172	321

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 2, dBdt_th: 1.1 nT/s, model:
6_WEIMER]

YES	000	001	001
NO	016	304	320
TOTAL	016	305	321

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	007	003	010
NO	142	169	311
TOTAL	149	172	321

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 2, dBdt_th: 1.1 nT/s, model:
9_SWMF]

YES	001	003	004
NO	015	302	317
TOTAL	016	305	321

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	034	023	057
NO	115	149	264
TOTAL	149	172	321

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 2, dBdt_th: 1.5 nT/s, model:
2_LFM-MIX]

YES	000	000	000
NO	007	314	321
TOTAL	007	314	321

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	001	001	002
NO	112	207	319
TOTAL	113	208	321

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 2, dBdt_th: 1.5 nT/s, model: 3_WEIGEL]

YES	000	000	000
NO	007	314	321
TOTAL	007	314	321

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	003	000	003
NO	110	208	318
TOTAL	113	208	321

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 2, dBdt_th: 1.5 nT/s, model: 4_OPENGCGCM]

YES	000	000	000
NO	007	314	321
TOTAL	007	314	321

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	009	026	035
NO	104	182	286
TOTAL	113	208	321

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 2, dBdt_th: 1.5 nT/s, model: 6_WEIMER]

YES	000	000	000
NO	007	314	321
TOTAL	007	314	321

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	003	001	004
NO	110	207	317
TOTAL	113	208	321

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 2, dBdt_th: 1.5 nT/s, model: 9_SWMF]

YES	000	000	000
NO	007	314	321
TOTAL	007	314	321

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	012	016	028
NO	101	192	293
TOTAL	113	208	321

Table C3: Event 3

MID-LAT stations: NEW OTT WNG

HIGH-LAT stations: YKC PBQ ABK

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 3, dBdt_th: 0.3 nT/s, model: 2_LFM-MIX]

		000 000 000
YES		000 000 000
NO		000 216 216
TOTAL		000 216 216

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

		000 001 001
YES		000 001 001
NO		054 161 215
TOTAL		054 162 216

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 3, dBdt_th: 0.3 nT/s, model: 3_WEIGEL]

		000 000 000
YES		000 000 000
NO		000 216 216
TOTAL		000 216 216

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

		001 001 002
YES		001 001 002
NO		053 161 214
TOTAL		054 162 216

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 3, dBdt_th: 0.3 nT/s, model: 4_OPENGGCM]

		000 000 000
YES		000 000 000
NO		000 216 216
TOTAL		000 216 216

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

		002 003 005
YES		002 003 005
NO		052 159 211
TOTAL		054 162 216

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 3, dBdt_th: 0.3 nT/s, model: 6_WEIMER]

		000 000 000
YES		000 000 000
NO		000 216 216
TOTAL		000 216 216

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

		002 000 002
YES		002 000 002
NO		052 162 214
TOTAL		054 162 216

Forecasts	Observations YES NO TOTAL [MID-LAT][Event no. 3, dBdt_th: 0.3 nT/s, model: 9_SWMF]
<hr/>	
YES	000 000 000
NO	000 216 216
TOTAL	000 216 216
Forecasts	Observations YES NO TOTAL [HIGH-LAT]
<hr/>	
YES	009 007 016
NO	045 155 200
TOTAL	054 162 216
Forecasts	Observations YES NO TOTAL [MID-LAT][Event no. 3, dBdt_th: 0.7 nT/s, model: 2_LFM-MIX]
<hr/>	
YES	000 000 000
NO	000 216 216
TOTAL	000 216 216
Forecasts	Observations YES NO TOTAL [HIGH-LAT]
<hr/>	
YES	000 000 000
NO	013 203 216
TOTAL	013 203 216
Forecasts	Observations YES NO TOTAL [MID-LAT][Event no. 3, dBdt_th: 0.7 nT/s, model: 3_WEIGEL]
<hr/>	
YES	000 000 000
NO	000 216 216
TOTAL	000 216 216
Forecasts	Observations YES NO TOTAL [HIGH-LAT]
<hr/>	
YES	000 000 000
NO	013 203 216
TOTAL	013 203 216
Forecasts	Observations YES NO TOTAL [MID-LAT][Event no. 3, dBdt_th: 0.7 nT/s, model: 4_OPENGGCM]
<hr/>	
YES	000 000 000
NO	000 216 216
TOTAL	000 216 216
Forecasts	Observations YES NO TOTAL [HIGH-LAT]
<hr/>	
YES	000 000 000
NO	013 203 216
TOTAL	013 203 216

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 3, dBdt_th: 0.7 nT/s, model:
6_WEIMER]

	YES	NO	TOTAL
YES	000 000 000		
NO	000 216 216		
TOTAL	000 216 216		

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

	YES	NO	TOTAL
YES	000 000 000		
NO	013 203 216		
TOTAL	013 203 216		

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 3, dBdt_th: 0.7 nT/s, model:
9_SWMF]

	YES	NO	TOTAL
YES	000 000 000		
NO	000 216 216		
TOTAL	000 216 216		

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

	YES	NO	TOTAL
YES	000 004 004		
NO	013 199 212		
TOTAL	013 203 216		

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 3, dBdt_th: 1.1 nT/s, model:
2_LFM-MIX]

	YES	NO	TOTAL
YES	000 000 000		
NO	000 216 216		
TOTAL	000 216 216		

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

	YES	NO	TOTAL
YES	000 000 000		
NO	005 211 216		
TOTAL	005 211 216		

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 3, dBdt_th: 1.1 nT/s, model:
3_WEIGEL]

	YES	NO	TOTAL
YES	000 000 000		
NO	000 216 216		
TOTAL	000 216 216		

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

	YES	NO	TOTAL
YES	000 000 000		
NO	005 211 216		
TOTAL	005 211 216		

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 3, dBdt_th: 1.1 nT/s, model:
4_OPENGGCM]

YES	000	000	000
NO	000	216	216
TOTAL	000	216	216

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	000	000	000
NO	005	211	216
TOTAL	005	211	216

6_WEIMER]

YES	000	000	000
NO	000	216	216
TOTAL	000	216	216

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	000	000	000
NO	005	211	216
TOTAL	005	211	216

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 3, dBdt_th: 1.1 nT/s, model:
9_SWMF]

YES	000	000	000
NO	000	216	216
TOTAL	000	216	216

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	000	000	000
NO	005	211	216
TOTAL	005	211	216

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 3, dBdt_th: 1.5 nT/s, model:
2_LFM-MIX]

YES	000	000	000
NO	000	216	216
TOTAL	000	216	216

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	000	000	000
NO	002	214	216
TOTAL	002	214	216

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 3, dBdt_th: 1.5 nT/s, model:
3_WEIGEL]

YES	000	000	000
NO	000	216	216
TOTAL	000	216	216
Forecasts Observations YES NO TOTAL [HIGH-LAT]			
YES	000	000	000
NO	002	214	216
TOTAL	002	214	216

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 3, dBdt_th: 1.5 nT/s, model:
4_OPENGGCM]

YES	000	000	000
NO	000	216	216
TOTAL	000	216	216
Forecasts Observations YES NO TOTAL [HIGH-LAT]			
YES	000	000	000
NO	002	214	216
TOTAL	002	214	216

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 3, dBdt_th: 1.5 nT/s, model:
6_WEIMER]

YES	000	000	000
NO	000	216	216
TOTAL	000	216	216
Forecasts Observations YES NO TOTAL [HIGH-LAT]			
YES	000	000	000
NO	002	214	216
TOTAL	002	214	216

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 3, dBdt_th: 1.5 nT/s, model:
9_SWMF]

YES	000	000	000
NO	000	216	216
TOTAL	000	216	216
Forecasts Observations YES NO TOTAL [HIGH-LAT]			
YES	000	000	000
NO	002	214	216
TOTAL	002	214	216

Table C4: Event 4

MID-LAT stations: NEW OTT WNG
 HIGH-LAT stations: YKC PBQ ABK

Forecasts	Observations	YES	NO	TOTAL	[MID-LAT][Event no. 4, dBdt_th: 0.3 nT/s, model: 2_LFM-MIX]
<hr/>					
YES		001	001	002	
NO		017	215	232	
TOTAL		018	216	234	
<hr/>					
Forecasts	Observations	YES	NO	TOTAL	[HIGH-LAT]
<hr/>					
YES		036	015	051	
NO		098	085	183	
TOTAL		134	100	234	
<hr/>					
Forecasts	Observations	YES	NO	TOTAL	[MID-LAT][Event no. 4, dBdt_th: 0.3 nT/s, model: 3_WEIGEL]
<hr/>					
YES		000	001	001	
NO		018	215	233	
TOTAL		018	216	234	
<hr/>					
Forecasts	Observations	YES	NO	TOTAL	[HIGH-LAT]
<hr/>					
YES		007	008	015	
NO		127	092	219	
TOTAL		134	100	234	
<hr/>					
Forecasts	Observations	YES	NO	TOTAL	[MID-LAT][Event no. 4, dBdt_th: 0.3 nT/s, model: 4_OPENGGCM]
<hr/>					
YES		011	050	061	
NO		007	166	173	
TOTAL		018	216	234	
<hr/>					
Forecasts	Observations	YES	NO	TOTAL	[HIGH-LAT]
<hr/>					
YES		107	053	160	
NO		027	047	074	
TOTAL		134	100	234	
<hr/>					
Forecasts	Observations	YES	NO	TOTAL	[MID-LAT][Event no. 4, dBdt_th: 0.3 nT/s, model: 6_WEIMER]
<hr/>					
YES		001	002	003	
NO		017	214	231	
TOTAL		018	216	234	
<hr/>					
Forecasts	Observations	YES	NO	TOTAL	[HIGH-LAT]
<hr/>					
YES		018	011	029	
NO		116	089	205	
TOTAL		134	100	234	

Forecasts		Observations YES NO TOTAL [MID-LAT][Event no. 4, dBdt_th: 0.3 nT/s, model: 9_SWMF]		
YES		001	018	019
NO		017	198	215
TOTAL		018	216	234
Forecasts		Observations YES NO TOTAL [HIGH-LAT]		
YES		079	046	125
NO		055	054	109
TOTAL		134	100	234
Forecasts		Observations YES NO TOTAL [MID-LAT][Event no. 4, dBdt_th: 0.7 nT/s, model: 2_LFM-MIX]		
YES		000	000	000
NO		002	232	234
TOTAL		002	232	234
Forecasts		Observations YES NO TOTAL [HIGH-LAT]		
YES		005	002	007
NO		042	185	227
TOTAL		047	187	234
Forecasts		Observations YES NO TOTAL [MID-LAT][Event no. 4, dBdt_th: 0.7 nT/s, model: 3_WEIGEL]		
YES		000	000	000
NO		002	232	234
TOTAL		002	232	234
Forecasts		Observations YES NO TOTAL [HIGH-LAT]		
YES		000	001	001
NO		047	186	233
TOTAL		047	187	234
Forecasts		Observations YES NO TOTAL [MID-LAT][Event no. 4, dBdt_th: 0.7 nT/s, model: 4_OPENGGCM]		
YES		000	005	005
NO		002	227	229
TOTAL		002	232	234
Forecasts		Observations YES NO TOTAL [HIGH-LAT]		
YES		026	046	072
NO		021	141	162
TOTAL		047	187	234

Forecasts	Observations YES NO TOTAL [MID-LAT][Event no. 4, dBdt_th: 0.7 nT/s, model: 6_WEIMER]
YES	000 000 000
NO	002 232 234
TOTAL	002 232 234
Forecasts	Observations YES NO TOTAL [HIGH-LAT]
YES	000 000 000
NO	047 187 234
TOTAL	047 187 234
Forecasts	Observations YES NO TOTAL [MID-LAT][Event no. 4, dBdt_th: 0.7 nT/s, model: 9_SWMF]
YES	000 000 000
NO	002 232 234
TOTAL	002 232 234
Forecasts	Observations YES NO TOTAL [HIGH-LAT]
YES	014 037 051
NO	033 150 183
TOTAL	047 187 234
Forecasts	Observations YES NO TOTAL [MID-LAT][Event no. 4, dBdt_th: 1.1 nT/s, model: 2_LFM-MIX]
YES	000 000 000
NO	001 233 234
TOTAL	001 233 234
Forecasts	Observations YES NO TOTAL [HIGH-LAT]
YES	000 000 000
NO	021 213 234
TOTAL	021 213 234
Forecasts	Observations YES NO TOTAL [MID-LAT][Event no. 4, dBdt_th: 1.1 nT/s, model: 3_WEIGEL]
YES	000 000 000
NO	001 233 234
TOTAL	001 233 234
Forecasts	Observations YES NO TOTAL [HIGH-LAT]
YES	000 000 000
NO	021 213 234
TOTAL	021 213 234

Forecasts		Observations YES NO TOTAL [MID-LAT][Event no. 4, dBdt_th: 1.1 nT/s, model: 4_OPENGGCM]		
YES		000	000	000
NO		001	233	234
TOTAL		001	233	234
Forecasts		Observations YES NO TOTAL [HIGH-LAT]		
YES		005	029	034
NO		016	184	200
TOTAL		021	213	234
Forecasts		Observations YES NO TOTAL [MID-LAT][Event no. 4, dBdt_th: 1.1 nT/s, model: 6_WEIMER]		
YES		000	000	000
NO		001	233	234
TOTAL		001	233	234
Forecasts		Observations YES NO TOTAL [HIGH-LAT]		
YES		000	000	000
NO		021	213	234
TOTAL		021	213	234
Forecasts		Observations YES NO TOTAL [MID-LAT][Event no. 4, dBdt_th: 1.1 nT/s, model: 9_SWMF]		
YES		000	000	000
NO		001	233	234
TOTAL		001	233	234
Forecasts		Observations YES NO TOTAL [HIGH-LAT]		
YES		003	017	020
NO		018	196	214
TOTAL		021	213	234
Forecasts		Observations YES NO TOTAL [MID-LAT][Event no. 4, dBdt_th: 1.5 nT/s, model: 2_LFM-MIX]		
YES		000	000	000
NO		000	234	234
TOTAL		000	234	234
Forecasts		Observations YES NO TOTAL [HIGH-LAT]		
YES		000	000	000
NO		012	222	234
TOTAL		012	222	234

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 4, dBdt_th: 1.5 nT/s, model:
3_WEIGEL]

	YES	000	000	000
YES	000	000	000	000
NO	000	234	234	234

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

	YES	000	000	000
YES	000	000	000	000
NO	012	222	234	234

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 4, dBdt_th: 1.5 nT/s, model:
4_OPENGGCM]

	YES	000	000	000
YES	000	000	000	000
NO	000	234	234	234

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

	YES	001	022	023
YES	001	022	023	023
NO	011	200	211	211

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 4, dBdt_th: 1.5 nT/s, model:
6_WEIMER]

	YES	000	000	000
YES	000	000	000	000
NO	000	234	234	234

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

	YES	000	000	000
YES	000	000	000	000
NO	012	222	234	234

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 4, dBdt_th: 1.5 nT/s, model:
9_SWMF]

	YES	000	000	000
YES	000	000	000	000
NO	000	234	234	234

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

	YES	001	006	007
YES	001	006	007	007
NO	011	216	227	227

Table C5: Event 5

MID-LAT stations: NEW OTT WNG
 HIGH-LAT stations: YKC SNK ABK

Forecasts		Observations			YES	NO	TOTAL	[MID-LAT][Event no. 7, dBdt_th: 0.3 nT/s, model: 2_LFM-MIX]
	YES		012	007	019			
	NO		024	173	197			
	TOTAL		036	180	216			
Forecasts		Observations			YES	NO	TOTAL	[HIGH-LAT]
	YES		048	001	049			
	NO		063	031	094			
	TOTAL		111	032	143			
Forecasts		Observations			YES	NO	TOTAL	[MID-LAT][Event no. 7, dBdt_th: 0.3 nT/s, model: 3_WEIGEL]
	YES		002	003	005			
	NO		034	177	211			
	TOTAL		036	180	216			
Forecasts		Observations			YES	NO	TOTAL	[HIGH-LAT]
	YES		031	000	031			
	NO		080	032	112			
	TOTAL		111	032	143			
Forecasts		Observations			YES	NO	TOTAL	[MID-LAT][Event no. 7, dBdt_th: 0.3 nT/s, model: 4_OPENGGCM]
	YES		014	015	029			
	NO		022	165	187			
	TOTAL		036	180	216			
Forecasts		Observations			YES	NO	TOTAL	[HIGH-LAT]
	YES		074	009	083			
	NO		037	023	060			
	TOTAL		111	032	143			
Forecasts		Observations			YES	NO	TOTAL	[MID-LAT][Event no. 7, dBdt_th: 0.3 nT/s, model: 6_WEIMER]
	YES		003	009	012			
	NO		033	171	204			
	TOTAL		036	180	216			
Forecasts		Observations			YES	NO	TOTAL	[HIGH-LAT]
	YES		023	001	024			
	NO		088	031	119			
	TOTAL		111	032	143			

Forecasts	Observations YES NO TOTAL [MID-LAT][Event no. 7, dBdt_th: 0.3 nT/s, model: 9_SWMF]
<hr/>	
YES	019 024 043
NO	017 156 173
TOTAL	036 180 216
Forecasts	Observations YES NO TOTAL [HIGH-LAT]
<hr/>	
YES	062 002 064
NO	049 030 079
TOTAL	111 032 143
Forecasts	Observations YES NO TOTAL [MID-LAT][Event no. 7, dBdt_th: 0.7 nT/s, model: 2_LFM-MIX]
<hr/>	
YES	000 001 001
NO	001 214 215
TOTAL	001 215 216
Forecasts	Observations YES NO TOTAL [HIGH-LAT]
<hr/>	
YES	005 000 005
NO	051 087 138
TOTAL	056 087 143
Forecasts	Observations YES NO TOTAL [MID-LAT][Event no. 7, dBdt_th: 0.7 nT/s, model: 3_WEIGEL]
<hr/>	
YES	000 000 000
NO	001 215 216
TOTAL	001 215 216
Forecasts	Observations YES NO TOTAL [HIGH-LAT]
<hr/>	
YES	008 000 008
NO	048 087 135
TOTAL	056 087 143
Forecasts	Observations YES NO TOTAL [MID-LAT][Event no. 7, dBdt_th: 0.7 nT/s, model: 4_OPENGGCM]
<hr/>	
YES	000 007 007
NO	001 208 209
TOTAL	001 215 216
Forecasts	Observations YES NO TOTAL [HIGH-LAT]
<hr/>	
YES	024 011 035
NO	032 076 108
TOTAL	056 087 143

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 7, dBdt_th: 0.7 nT/s, model:
6_WEIMER]

	YES	000	006	006
YES	000	006	006	
NO	001	209	210	

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

	YES	008	001	009
YES	008	001	009	
NO	048	086	134	

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 7, dBdt_th: 0.7 nT/s, model:
9_SWMF]

	YES	000	002	002
YES	000	002	002	
NO	001	213	214	

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

	YES	030	004	034
YES	030	004	034	
NO	026	083	109	

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 7, dBdt_th: 1.1 nT/s, model:
2_LFM-MIX]

	YES	000	001	001
YES	000	001	001	
NO	000	215	215	

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

	YES	001	000	001
YES	001	000	001	
NO	042	100	142	

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 7, dBdt_th: 1.1 nT/s, model:
3_WEIGEL]

	YES	000	000	000
YES	000	000	000	
NO	000	216	216	

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

	YES	002	000	002
YES	002	000	002	
NO	041	100	141	

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 7, dBdt_th: 1.1 nT/s, model:
4_OPENGGCM]

	YES	000	002	002
YES	000	214	214	
TOTAL	000	216	216	

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

	YES	010	006	016
NO	033	094	127	
TOTAL	043	100	143	

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 7, dBdt_th: 1.1 nT/s, model:
6_WEIMER]

	YES	000	001	001
NO	000	215	215	
TOTAL	000	216	216	

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

	YES	004	000	004
NO	039	100	139	
TOTAL	043	100	143	

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 7, dBdt_th: 1.1 nT/s, model:
9_SWMF]

	YES	000	000	000
NO	000	216	216	
TOTAL	000	216	216	

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

	YES	013	003	016
NO	030	097	127	
TOTAL	043	100	143	

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 7, dBdt_th: 1.5 nT/s, model:
2_LFM-MIX]

	YES	000	000	000
NO	000	216	216	
TOTAL	000	216	216	

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

	YES	001	000	001
NO	028	114	142	
TOTAL	029	114	143	

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 7, dBdt_th: 1.5 nT/s, model:
3_WEIGEL]

	YES	000	000	000
YES	000	000	000	000
NO	000	216	216	216

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

	YES	000	000	000
YES	000	000	000	000
NO	029	114	143	143

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 7, dBdt_th: 1.5 nT/s, model:
4_OPENGCM]

	YES	000	000	000
YES	000	000	000	000
NO	000	216	216	216

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

	YES	004	002	006
YES	004	002	006	006
NO	025	112	137	137

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 7, dBdt_th: 1.5 nT/s, model:
6_WEIMER]

	YES	000	000	000
YES	000	000	000	000
NO	000	216	216	216

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

	YES	001	000	001
YES	001	000	001	001
NO	028	114	142	142

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 7, dBdt_th: 1.5 nT/s, model:
9_SWMF]

	YES	000	000	000
YES	000	000	000	000
NO	000	216	216	216

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

	YES	005	003	008
YES	005	003	008	008
NO	024	111	135	135

Table C6: Event 6

MID-LAT stations: NEW OTT WNG
 HIGH-LAT stations: YKC SNK ABK

Forecasts	Observations	YES	NO	TOTAL	[MID-LAT][Event no. 8, dBdt_th: 0.3 nT/s, model: 2_LFM-MIX]
<hr/>					
YES		023	009	032	
NO		013	171	184	
TOTAL		036	180	216	
<hr/>					
Forecasts	Observations	YES	NO	TOTAL	[HIGH-LAT]
<hr/>					
YES		067	005	072	
NO		057	087	144	
TOTAL		124	092	216	
<hr/>					
Forecasts	Observations	YES	NO	TOTAL	[MID-LAT][Event no. 8, dBdt_th: 0.3 nT/s, model: 3_WEIGEL]
<hr/>					
YES		004	008	012	
NO		032	172	204	
TOTAL		036	180	216	
<hr/>					
Forecasts	Observations	YES	NO	TOTAL	[HIGH-LAT]
<hr/>					
YES		041	002	043	
NO		083	090	173	
TOTAL		124	092	216	
<hr/>					
Forecasts	Observations	YES	NO	TOTAL	[MID-LAT][Event no. 8, dBdt_th: 0.3 nT/s, model: 4_OPENGGCM]
<hr/>					
YES		027	013	040	
NO		009	167	176	
TOTAL		036	180	216	
<hr/>					
Forecasts	Observations	YES	NO	TOTAL	[HIGH-LAT]
<hr/>					
YES		100	004	104	
NO		024	088	112	
TOTAL		124	092	216	
<hr/>					
Forecasts	Observations	YES	NO	TOTAL	[MID-LAT][Event no. 8, dBdt_th: 0.3 nT/s, model: 6_WEIMER]
<hr/>					
YES		006	003	009	
NO		030	177	207	
TOTAL		036	180	216	
<hr/>					
Forecasts	Observations	YES	NO	TOTAL	[HIGH-LAT]
<hr/>					
YES		043	002	045	
NO		081	090	171	
TOTAL		124	092	216	

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 8, dBdt_th: 0.3 nT/s, model:
9_SWMF]

YES	015	003	018
NO	021	177	198
TOTAL	036	180	216

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	079	002	081
NO	045	090	135
TOTAL	124	092	216

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 8, dBdt_th: 0.7 nT/s, model:
2_LFM-MIX]

YES	000	005	005
NO	005	206	211
TOTAL	005	211	216

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	016	006	022
NO	056	138	194
TOTAL	072	144	216

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 8, dBdt_th: 0.7 nT/s, model:
3_WEIGEL]

YES	000	000	000
NO	005	211	216
TOTAL	005	211	216

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	008	000	008
NO	064	144	208
TOTAL	072	144	216

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 8, dBdt_th: 0.7 nT/s, model:
4_OPENGCGCM]

YES	003	012	015
NO	002	199	201
TOTAL	005	211	216

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	046	015	061
NO	026	129	155
TOTAL	072	144	216

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 8, dBdt_th: 0.7 nT/s, model:
6_WEIMER]

YES	000	002	002
NO	005	209	214
TOTAL	005	211	216

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	009	002	011
NO	063	142	205
TOTAL	072	144	216

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 8, dBdt_th: 0.7 nT/s, model:
9_SWMF]

YES	001	004	005
NO	004	207	211
TOTAL	005	211	216

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	023	006	029
NO	049	138	187
TOTAL	072	144	216

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 8, dBdt_th: 1.1 nT/s, model:
2_LFM-MIX]

YES	000	003	003
NO	000	213	213
TOTAL	000	216	216

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	005	005	010
NO	038	168	206
TOTAL	043	173	216

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 8, dBdt_th: 1.1 nT/s, model:
3_WEIGEL]

YES	000	000	000
NO	000	216	216
TOTAL	000	216	216

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	002	001	003
NO	041	172	213
TOTAL	043	173	216

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 8, dBdt_th: 1.1 nT/s, model:
4_OPENGGCM]

YES	000	004	004
NO	000	212	212
TOTAL	000	216	216

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	018	019	037
NO	025	154	179
TOTAL	043	173	216

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 8, dBdt_th: 1.1 nT/s, model:
6_WEIMER]

YES	000	001	001
NO	000	215	215
TOTAL	000	216	216

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	002	001	003
NO	041	172	213
TOTAL	043	173	216

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 8, dBdt_th: 1.1 nT/s, model:
9_SWMF]

YES	000	000	000
NO	000	216	216
TOTAL	000	216	216

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	009	008	017
NO	034	165	199
TOTAL	043	173	216

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 8, dBdt_th: 1.5 nT/s, model:
2_LFM-MIX]

YES	000	003	003
NO	000	213	213
TOTAL	000	216	216

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

YES	002	005	007
NO	026	183	209
TOTAL	028	188	216

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 8, dBdt_th: 1.5 nT/s, model:
3_WEIGEL]

	YES	000	000	000
YES	000	000	000	000
NO	000	216	216	216

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

	YES	000	001	001
YES	000	001	001	001
NO	028	187	215	216

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 8, dBdt_th: 1.5 nT/s, model:
4_OPENGCGCM]

	YES	000	002	002
YES	000	002	002	002
NO	000	214	214	216

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

	YES	008	020	028
YES	008	020	028	028
NO	020	168	188	216

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 8, dBdt_th: 1.5 nT/s, model:
6_WEIMER]

	YES	000	001	001
YES	000	001	001	001
NO	000	215	215	216

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

	YES	000	001	001
YES	000	001	001	001
NO	028	187	215	216

| Forecasts Observations | YES | NO | TOTAL [MID-LAT][Event no. 8, dBdt_th: 1.5 nT/s, model:
9_SWMF]

	YES	000	000	000
YES	000	000	000	000
NO	000	216	216	216

| Forecasts Observations | YES | NO | TOTAL [HIGH-LAT]

	YES	005	006	011
YES	005	006	011	011
NO	023	182	205	216